WEST VIRGINIA
SECRETARY OF STATE
KEN HECHLER
ADMINISTRATIVE LAW DIVISION

Form #1

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OFFICE OF WEST VIRGINIA
SECRETARY OF STATE

NOTICE OF PUBLIC HEARING ON A PROPOSED RULE

AGENCY: WV Division of Environmental Protection Mining and Reclamation TITLE NUMBER: 38

RULE TYPE: Legislative ; CITE AUTHORITY Chapter 22-1-3
22-1-3a
22-3-4 (b)(1)

AMENDMENT TO AN EXISTING RULE: YES X NO ___

IF YES, SERIES NUMBER OF RULE BEING AMENDED: 2

TITLE OF RULE BEING AMENDED: Surface Mining Reclamation Regulations

IF NO, SERIES NUMBER OF NEW RULE BEING PROPOSED: N/A

TITLE OF RULE BEING PROPOSED: ___

DATE OF PUBLIC HEARING: July 31 TIME: 9:00 a.m.

LOCATION OF PUBLIC HEARING: WV Division of Environmental Protection
10 McJunkin Road
Nitro, WV 25143

COMMENTS LIMITED TO: ORAL ___, WRITTEN ___, BOTH X

COMMENTS MAY ALSO BE MAILED TO THE FOLLOWING ADDRESS: WV Division of Environmental Protection
10 McJunkin Road
Nitro, WV 25143
Attn: Charles Sturey

The Department requests that persons wishing to make comments at the hearing make an effort to submit written comments in order to facilitate the review of these comments.

The issues to be heard shall be limited to the proposed rule.

38.80

ATTACH A **BRIEF** SUMMARY OF YOUR PROPOSAL

Roger W. Neal
Authorized Signature

APPENDIX B

FISCAL NOTE FOR PROPOSED RULES

Rule Title: Surface Mining Reclamation Regulations

Type of Rule: X **Legislative** ____ **Interpretive** ____ **Procedural**

Agency WV Division of Environmental Protection

Address 10 McJunkin Road

Nitro, WV 25143

Attn: Charles Sturey

---

1. Effect of Proposed Rule

	ANNUAL		FISCAL YEAR		
	INCREASE	DECREASE	CURRENT	NEXT	THEREAFTER
ESTIMATED TOTAL COST	$ 0	$ 0	$ 0	$ 0	$ 0
PERSONAL SERVICES	0	0	0	0	0
CURRENT EXPENSE	0	0	0	0	0
REPAIRS & ALTERNATIONS	0	0	0	0	0
EQUIPMENT	0	0	0	0	0
OTHER	0	0	0	0	0

2. Explanation of above estimates:

This proposed legislative rule does not increase or decrease costs and revenues to the state.

3. Objectives of these rules:

See Statement of Circumstances

Rule Title: Surface Mining Reclamation Regulations

4. Explanation of Overall Economic Impact of Proposed Rule.

A. Economic Impact on State Government.

N/A

B. Economic Impact on Political Subdivisions; Specific Industries; Specific groups of Citizens.

N/A

C. Economic Impact on Citizens/Public at Large.

N/A

Date: 6/30/95

Signature of Agency Head or Authorized Reprensentative

Roger T Nally

GASTON CAPERTON
GOVERNOR

BUREAU OF ENVIRONMENT
10 McJunkin Road
Nitro, WV 25143-2506

LAIDLEY ELI MCCOY, PH.D.
COMMISSIONER

June 30, 1995

Ms. Judy Cooper
Director, Administrative Law Division
Secretary of State's Office
Building 1, Suite 157K
Charleston, West Virginia 25305

RE: 38 CSR 2 - Surface Mining Reclamation Rule

Dear Ms. Cooper:

This is to advise you that I am giving approval for the filing of the above-captioned proposed legislative rule for Notice of Public Hearing and Comment Period with the Secretary of State's Office.

Your cooperation in this regard is very much appreciated. If you have any questions or require additional information, please feel free to contact Roger T. Hall at 759-0515.

Sincerely yours,

Laidley Eli McCoy, Ph.D.
Commissioner

LEM;RTH:cc

Attachment

STATEMENT OF CIRCUMSTANCES:

38-2-4.4
There is no Federal Counterpart. The only design criteria required in the Federal Regulations (30 CFR Section 816.150(c)) is prudent engineering practices. Therefore, we are deleting 4.5(a)(1), 4.5(b) and 4.6(a) and limiting Infrequently Used Access Roads to 4.7(a) only.

We are adding 4.9 since reclamation requirements was inadvertently deleted in the previous regulations. This requirement has been in the Surface Mining Reclamation Regulations since its inception.

38-2-4.12
There is no Federal Counterpart regarding Ancillary Roads (Infrequently Used Access Roads). This is being revised to be consistent with other sections regarding as-built certifications of these regulations. 30 CFR Section 816.151(a) which deals with certifications of primary roads (haulroads), does not address as-built certifications.

38-2-5(c)
The design criteria regarding embankment structures (impoundments) to be utilized in both the state and federal regulations depend on the size of the structure, not the material the structure is composed of. This language is being deleted to eliminate and avoid confusion regarding the requirements for design of slurry impoundments and is not needed.

38-2-11.6(a)
There is no Federal Counterpart. The Office of Mining and Reclamation deems it necessary to have flexibility in determining when an existing bond is adequate based on performance of the permittee. The current rules allow this agency to determine if existing bonds are adequate for surface mines only.

38-2-14.15(m)
The current rules as written can be literally interpreted as a strict prohibition of placing refuse in backfill. The agency recognizes that placement of non-toxic materials generated on-site and placed on backfill on-site minimizes environmental disturbances associated with a particular mining operation. This ensures that refuse placed in the backfill will be non-acid-producing and the environmental disturbances due to placement of refuse would be minimized.

WV Division of Environmental Protection
Office of Mining and Reclamation

PROPOSED CHANGES TO JUNE 1, 1995 REGS

June 30, 1995

NOTE: See Page 5 for Statement of Circumstances

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38-2-4.4 Infrequently Used Access Roads. Prospecting roads are to be designed, constructed, maintained, and reclaimed in accordance with the provisions of subsection 13.6 of this rule. Other access roads constructed for and used only to provide infrequent service to facilities used in support of mining and reclamation operations may be exempt from the requirements of this section with the exception of the requirements of subsections 4.2, 5.3, ~~4.5(a)(1), 4.5(b), 4.6(a)~~, 4.7**(a)**, ~~and~~ 4.8 **and 4.9**; provided, That such roads will be designed to ensure environmental protection appropriate for their planned duration and use, including consideration of the type and size of equipment used, the design and construction or reconstruction of roads shall incorporate appropriate limits for grade, width, surface materials, surface drainage control, culvert placement, and culvert size, in accordance with current, prudent engineering practices, and any necessary design criteria established by the Director.

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38-2-4.12 Certification. Upon completion of construction or reconstruction, all primary roads for which design criteria were approved as part of the permit shall be certified. Such certification shall affirm that construction was done in accordance with the approved criteria except as otherwise noted in the certification statement. Where the certification statement indicates a change from the design standards or construction requirements approved in the permit, such changes will be documented in as-built plans. ~~and submitted for approval to the Director as a permit revision.~~ **If as-built plans are submitted, the certification shall describe how and to what extent the construction deviates from the proposed design, and shall explain how and certify that the road will meet performance standards.** The certification shall be on forms approved by the Director and signed by an approved licensed engineer or an approved licensed land surveyor with experience in design and construction of roads. All roads used for transportation of coal or spoil, and which are constructed outside the permitted coal extraction area, shall be certified before they are used for such transportation. Any road which lies within the coal extraction area, and which is therefore constructed concurrent with progress of mining activities, shall be certified in sections of one thousand (1,000) linear feet or less as measured from the active pit.

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38-2-5(c) In addition to the requirements of subsection (b) of this section, all embankment type sediment control or other water retention structures ~~which may include slurry impoundments~~ shall be designed, constructed and maintained to meet the following safety standards:

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38-2-11.6(a) Site Specific Bonding. *(starting with paragraph 4 of (a))*

After January 1, 1994, all existing permits for surface mining operations in the four major categories set forth in paragraph (b) of this subsection shall be reviewed by the Director and a determination made as to whether or not the surface mining operations are subject to the site specific bonding criteria set forth herein. The determinations shall be made in accordance with the following:

(1) Existing permits in the **four** major ~~category~~ **categories** ~~"surface mines"~~, described in paragraph (b) of this subsection shall be reviewed by the Director at the time of renewal or mid-term review, whichever occurs first, and a determination made as to the adequacy of existing bond~~.~~ **and shall not be renewed by the Director until the appropriate amount of bond has been posted.** The existing bond may be determined to be adequate only if all the following criteria are met:

(A) The operation is active at the time of application for renewal or mid-term review, whichever occurs first.

(B) An approved mining and reclamation plan which is in accordance with the requirements of subsection 14.15 of these regulations has been made a part of the permit, or has been submitted as a permit revision and is pending approval.

(C) The operation is in compliance with the requirements of subsection 14.15 of these regulations.

(D) The operation is not under a cessation order or show cause order.

(E) There are not delinquent civil penalties associated with the permit.

Where the operation has an approved inactive status, it shall be subject to the site specific bond criteria of this subsection at the time of permit renewal or mid-term review, whichever occurs first, and shall not be renewed by the Director until the appropriate amount of bond has been posted.

~~(2) Existing permits, whether active or inactive, in the major category "underground mines" described in paragraph (b) of this subsection, shall be subject to the site specific bond criteria of this subsection at the time of application for renewal or at mid-term review, whichever occurs first, and shall not be renewed by the Director until the appropriate amount of bond has been posted.~~

~~(3) Existing permits, whether active or inactive, in the major category "preparation plants" described in paragraph (b) of this subsection shall be subject to the site specific bond criteria of this subsection at the time of application for renewal or at mid-term review, whichever occurs first, and shall not be renewed by the Director until the appropriate amount of bond is posted.~~

~~(4) Existing permits, whether active or inactive, in the major category "coal refuse sites" described in paragraph (b) of this subsection shall be subject to the site specific bond criteria of this subsection at the time of application for renewal or mid-term review, whichever occurs first, and shall not be renewed by the Director until the appropriate amount of bond is posted.~~

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38-2-14.15(m) Coal Processing Waste Disposal. Where approval for placing coal processing waste in the backfill has been granted, such placement shall be done in accordance with the compaction requirements of paragraph (p), subsection 22.3 of these regulations. The final graded slope shall not exceed either the angle or repose or such other lesser slope as is necessary to achieve a minimum long-term static safety factor of 1.3 and to prevent slides.

(1) The coal processing waste ~~will not contain acid-producing or toxic-forming material and~~ shall be placed in a controlled manner so as to:

~~(1)~~ **(A)** Minimize adverse effects of leachate and surface-water runoff on surface and ground water quality and quantity;

~~(2)~~ **(B)** Ensure mass stability and prevent mass movement during and after construction;

~~(3)~~ **(C)** Ensure that the final disposal facility is suitable for reclamation and revegetation compatible with the natural surroundings and the approved postmining land use;

~~(4)~~ **(D)** Not create a public hazard; and

~~(5)~~ **(E)** Prevent combustion.

(2) The coal processing waste will not be placed in the backfill unless it has been demonstrated to the satisfaction of the Director that:

(A) the coal processing waste to be placed based upon laboratory testing to be non-toxic and/or non-acid-producing; or

(B) an adequate handling plan including alkaline additives has been developed and the mateiral after alkaline addition is non-toxic and/or non-acid-producing.

mined and extending from the outslope for such distance as may be determined by the regulatory authority as is needed to assure stability. The barrier shall be retained in place to prevent slides and erosion.

(b) At any time a slide occurs which may have a potential adverse affect on public property, health, safety, or the environment, the person who conducts the surface mining activities shall notify the regulatory authority by the fastest available means and comply with any remedial measures required by the regulatory authority.

§ 816.100 Contemporaneous reclamation.

Reclamation efforts, including but not limited to backfilling, grading, topsoil replacement, and revegetation, on all land that is disturbed by surface mining activities shall occur as contemporaneously as practicable with mining operations, except when such mining operations are conducted in accordance with a variance for concurrent surface and underground mining activities issued under § 785.18 of this chapter.

[48 FR 24652, June 1, 1983, as amended at 56 FR 65635, Dec. 17, 1991]

§ 816.101 Backfilling and grading: Time and distance requirements.

(a) Except as provided in paragraph (b) of this section, rough backfilling and grading for surface mining activities shall be completed according to one of the following schedules:

(1) Contour mining. Within 60 days or 1,500 linear feet following coal removal;

(2) Area mining. Within 180 days following coal removal, and not more than four spoil ridges behind the pit being worked, the spoil from the active pit constituting the first ridge; or

(3) Other surface mining methods. In accordance with the schedule established by the regulatory authority. For States with approved State programs, schedules are subject to the State program approval process.

(b) The regulatory authority may extend the time allowed for rough backfilling and grading for the entire permit area or for a specified portion of the permit area if the permittee demonstrates in accordance with § 780.18(b)(3) of this chapter that additional time is necessary.

[56 FR 65635, Dec. 17, 1991]

EDITORIAL NOTE: At 57 FR 33875, July 31, 1992, § 816.101 was suspended indefinately, effective August 31, 1992.

§ 816.102 Backfilling and grading: General requirements.

(a) Disturbed areas shall be backfilled and graded to—

(1) Achieve the approximate original contour, except as provided in paragraph (k) of this section;

(2) Eliminate all highwalls, spoil piles, and depressions, except as provided in paragraph (h) (small depressions) and in paragraph (k)(3)(iii) (previously mined highwalls) of this section;

(3) Achieve a postmining slope that does not exceed either the angle of repose or such lesser slope as is necessary to achieve a minimum long-term static safety factor of 1.3 and to prevent slides;

(4) Minimize erosion and water pollution both on and off the site; and

(5) Support the approved postmining land use.

(b) Spoil, except excess spoil disposed of in accordance with §§ 816.71 through 816.74, shall be returned to the mined-out area.

(c) Spoil and waste materials shall be compacted where advisable to ensure stability or to prevent leaching of toxic materials.

(d) Spoil may be placed on the area outside the mined-out area in nonsteep slope areas to restore the approximate original contour by blending the spoil into the surrounding terrain if the following requirements are met:

(1) All vegetative and organic material shall be removed from the area.

(2) The topsoil on the area shall be removed, segregated, stored, and redistributed in accordance with §816.22.

(3) The spoil shall be backfilled and graded on the area in accordance with the requirements of this section.

(e) Disposal of coal processing waste and underground development waste in the mined-out area shall be in accordance with §§ 816.81 and 816.83,

except that a long-term static safety factor of 1.3 shall be achieved.

(f) Exposed coal seams, acid- and toxic-forming materials, and combustible materials exposed, used, or produced during mining shall be adequately covered with nontoxic and noncombustible material, or treated, to control the impact on surface and ground water in accordance with § 816.41, to prevent sustained combustion, and to minimize adverse effects on plant growth and the approved postmining land use.

(g) Cut-and-fill terraces may be allowed by the regulatory authority where—

(1) Needed to conserve soil moisture, ensure stability, and control erosion on final-graded slopes, if the terraces are compatible with the approved postmining land use; or

(2) Specialized grading, foundation conditions, or roads are required for the approved postmining land use, in which case the final grading may include a terrace of adequate width to ensure the safety, stability, and erosion control necessary to implement the postmining land-use plan.

(h) Small depressions may be constructed if they are needed to retain moisture, minimize erosion, create and enhance wildlife habitat, or assist revegetation.

(i) Permanent impoundments may be approved if they meet the requirements of §§ 816.49 and 816.56 and if they are suitable for the approved postmining land use.

(j) Preparation of final-graded surfaces shall be conducted in a manner that minimizes erosion and provides a surface for replacement of topsoil that will minimize slippage.

(k) The postmining slope may vary from the approximate original contour when—

(1) The standards for thin overburden in §816.104 are met;

(2) The standards for thick overburden in §816.105 are met; or

(3) Approval is obtained from the regulatory authority for—

(i) Mountaintop removal operations in accordance with § 785.14 of this chapter;

(ii) A variance from approximate original contour requirements in accordance with § 785.16 of this chapter; or

(iii) Incomplete elimination of highwalls in previously mined areas in accordance with § 816.106.

[48 FR 23368, May 24, 1983, as amended at 48 FR 41734, Sept. 16, 1983]

§ 816.104 Backfilling and grading: Thin overburden.

(a) *Definition.* Thin overburden means insufficient spoil and other waste materials available from the entire permit area to restore the disturbed area to its approximate original contour. Insufficient spoil and other waste materials occur where the overburden thickness times the swell factor, plus the thickness of other available waste materials, is less than the combined thickness of the overburden and coal bed prior to removing the coal, so that after backfilling and grading the surface configuration of the reclaimed area would not:

(1) Closely resemble the surface configuration of the land prior to mining; or

(2) Blend into and complement the drainage pattern of the surrounding terrain.

(b) *Performance standards.* Where thin overburden occurs within the permit area, the permittee at a minimum shall:

(1) Use all spoil and other waste materials available from the entire permit area to attain the lowest practicable grade, but not more than the angle of repose; and

(2) Meet the requirements of §§ 816.102(a)(2) through (j) of this part.

[56 FR 65635, Dec. 17, 1991]

§ 816.105 Backfilling and grading: Thick overburden.

(a) *Definition.* Thick overburden means more than sufficient spoil and other waste materials available from the entire permit area to restore the disturbed area to its approximate original contour. More than sufficient spoil and other waste materials occur where the overburden thickness times the swell factor exceeds the combined thickness of the overburden and coal bed prior to removing the coal, so that

(d) *Approximate original contour: Criteria for variance.* Surface coal mining operations that meet the requirements of this paragraph may be conducted under a variance from the requirement to restore disturbed areas to their approximate original contour, if the following requirements are satisfied:

(1) The regulatory authority grants the variance under a permit issued in accordance with § 785.16 of this chapter.

(2) The alternative postmining land use requirements of paragraph (c) of this section are met.

(3) All applicable requirements of the Act and the regulatory program, other than the requirement to restore disturbed areas to their approximate original contour, are met.

(4) After consultation with the appropriate land use planning agencies, if any, the potential use is shown to constitute an equal or better economic or public use.

(5) The proposed use is designed and certified by a qualified registered professional engineer in conformance with professional standards established to assure the stability, drainage, and configuration necessary for the intended use of the site.

(6) After approval, where required, of the appropriate State environmental agencies, the watershed of the permit and adjacent areas is shown to be improved.

(7) The highwall is completely backfilled with spoil material, in a manner which results in a static factor of safety of at least 1.3, using standard geotechnical analysis.

(8) Only the amount of spoil as is necessary to achieve the postmining land use, ensure the stability of spoil retained on the bench, and meet all other requirements of the Act and this chapter is placed off the mine bench. All spoil not retained on the bench shall be placed in accordance with §§ 816.71–816.74 of this chapter.

(9) The surface landowner of the permit area has knowingly requested, in writing, that a variance be granted, so as to render the land, after reclamation, suitable for an industrial, commercial, residential, or public use (including recreational facilities).

(10) Federal, State, and local government agencies with an interest in the proposed land use have an adequate period in which to review and comment on the proposed use.

[48 FR 39904, Sept. 1, 1983]

§ 816.150 Roads: general.

(a) *Road classification system.* (1) Each road, as defined in § 701.5 of this chapter, shall be classified as either a primary road or an ancillary road.

(2) A primary road is any road which is–

(i) Used for transporting coal or spoil;

(ii) Frequently used for access or other purposes for a period in excess of six months; or

(iii) To be retained for an approved postmining land use.

(3) An ancillary road is any road not classified as a primary road.

(b) *Performance standards.* Each road shall be located, designed, constructed, reconstructed, used, maintained, and reclaimed so as to:

(1) Control or prevent erosion, siltation, and the air pollution attendant to erosion, including road dust as well as dust occurring on other exposed surfaces, by measures such as vegetating, watering, using chemical or other dust suppressants, or otherwise stabilizing all exposed surfaces in accordance with current, prudent engineering practices;

(2) Control or prevent damage to fish, wildlife, or their habitat and related environmental values;

(3) Control or prevent additional contributions of suspended solids to stream flow or runoff outside the permit area;

(4) Neither cause nor contribute to, directly or indirectly, the violation of State or Federal water quality standards applicable to receiving waters;

(5) Refrain from seriously altering the normal flow of water in streambeds or drainage channels;

(6) Prevent or control damage to public or private property, including the prevention or mitigation of adverse effects on lands within the boundaries of units of the National Park System, the National Wildlife Refuge System, the National System

of Trails, the National Wilderness Preservation System, the Wild and Scenic Rivers System, including designated study rivers, and National Recreation Areas designated by Act of Congress;

(7) Use nonacid- and nontoxic-forming substances in road surfacing.

(c) *Design and construction limits and establishment of design criteria.* To ensure environmental protection appropriate for their planned duration and use, including consideration of the type and size of equipment used, the design and construction or reconstruction of roads shall incorporate appropriate limits for grade, width, surface materials, surface drainage control, culvert placement, and culvert size, in accordance with current, prudent engineering practices, and any necessary design criteria established by the regulatory authority.

(d) *Location.* (1) No part of any road shall be located in the channel of an intermittent or perennial stream unless specifically approved by the regulatory authority in accordance with applicable §§ 816.41 through 816.43 and 816.57 of this chapter.

(2) Roads shall be located to minimize downstream sedimentation and flooding.

(e) *Maintenance.* (1) A road shall be maintained to meet the performance standards of this part and any additional criteria specified by the regulatory authority.

(2) A road damaged by a catastrophic event, such as a flood or earthquake, shall be repaired as soon as is practicable after the damage has occurred.

(f) *Reclamation.* A road not to be retained under an approved postmining land use shall be reclaimed in accordance with the approved reclamation plan as soon as practicable after it is no longer needed for mining and reclamation operations. This reclamation shall include:

(1) Closing the road to traffic;

(2) Removing all bridges and culverts unless approved as part of the postmining land use;

(3) Removing or otherwise disposing of road-surfacing materials that are incompatible with the postmining land use and revegetation requirements;

(4) Reshaping cut and fill slopes as necessary to be compatible with the postmining land use and to complement the natural drainage pattern of the surrounding terrain;

(5) Protecting the natural drainage patterns by installing dikes or cross drains as necessary to control surface runoff and erosion; and

(6) Scarifying or ripping the roadbed; replacing topsoil or substitute material, and revegetating disturbed surfaces in accordance with §§ 816.22 and 816.111 through 816.116 of this chapter.

[53 FR 45212, Nov. 8, 1988]

§ 816.151 Primary roads.

Primary roads shall meet the requirements of section 816.150 and the additional requirements of this section.

(a) *Certification.* The construction or reconstruction of primary roads shall be certified in a report to the regulatory authority by a qualified registered professional engineer, or in any State which authorizes land surveyors to certify the construction or reconstruction of primary roads, a qualified registered professional land surveyor with experience in the design and construction of roads. The report shall indicate that the primary road has been constructed or reconstructed as designed and in accordance with the approved plan.

(b) *Safety Factor.* Each primary road embankment shall have a minimum static factor of 1.3 or meet the requirements established under § 780.37(c) of this chapter.

(c) *Location.* (1) To minimize erosion, a primary road shall be located, insofar as is practicable, on the most stable available surface.

(2) Fords or perennial or intermittent streams by primary roads are prohibited unless they are specifically approved by the regulatory authority as temporary routes during periods of road construction.

(d) *Drainage control.* In accordance with the approved plan—

(1) Each primary road shall be constructed or reconstructed, and maintained to have adequate drainage control, using structures such as, but not

LEGISLATIVE RULES

DIVISION OF ENVIRONMENTAL PROTECTION

TITLE 38 - SERIES 2

WEST VIRGINIA SURFACE MINING RECLAMATION RULES

LEGISLATIVE RULES
DIVISION OF ENVIRONMENTAL PROTECTION
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WEST VIRGINIA SURFACE MINING
RECLAMATION RULES

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OFFICE OF WEST VIRGINIA
SECRETARY OF STATE

LEGISLATIVE RULES
DIVISION OF ENVIRONMENTAL PROTECTION
TITLE 38-SERIES 2
WEST VIRGINIA SURFACE MINING
RECLAMATION REGULATIONS

38-2-1 General.

1.1 Scope. These regulations establish general and specific rules for permit application requirements and contents; haulageways or access roads; drainage and sediment control systems; blasting; premining and postmining land use; fish and wildlife considerations; revegetation; prime farmlands; insurance and bonding; replacement, release, and forfeiture of bonds; requirements of a notice of intent to prospect; performance standards; performance standards applicable to underground mining operations; subsidence control; small operator assistance program; citizen's actions; designation of areas unsuitable for mining; inspection and enforcement; Surface Mine Board; and Coal Refuse.

1.2 Applicability.

(a) These rules and regulations apply to all prospecting and surface mining operations in the State of West Virginia, except the applicable subsections in Section 26, Article 3, Chapter 22 of the Act. The provisions of this paragraph do not constitute the issuance of a new permit for purposes of permit renewal or mid-term review of existing permits.

(b) Permits issued after the effective date of these regulations shall incorporate in the application all of the requirements of these regulations.

(c) The Director may terminate jurisdiction over a reclaimed site of a completed surface mining and reclamation operation, or increment thereof, when:

(1) The Director determines in writing that under the initial program all applicable requirements imposed by the Act, these regulations, and the terms and conditions of the permit have been successfully complied with; or

(2) The Director determines in writing that under the permanent program, all requirements imposed under the Act, these rules and regulations, and the terms and conditions of the permit have been successfully complied with or, where a bond was required, the Director has made a final decision to release the bond fully.

(d) Following termination under paragraph (c) of this subsection, the Director shall reassert jurisdiction over a site if it is demonstrated that the bond release or written determination referred to in paragraph (c) of this subsection was based upon fraud, collusion, or misrepresentation of a material fact.

1.3 Authority. These rules and regulations are promulgated under the authority of Sections 3 and 3a, Article 1, Chapter 22 of the Code of West Virginia, 1931, as amended and West Virginia Surface Coal Mining and Reclamation Act as provided in Section 4, Article 3, Chapter 22 of the Code of West Virginia, 1931, as amended.

1.4 Filing Date. April 26, 1995

1.5 Effective Date. June 1, 1995

38-2-2 Definitions: As used in these regulations, unless used in a context that clearly requires a different meaning, the term:

2.1 Abandoned Coal Waste Disposal Area means any coal refuse disposal area which is not part of an active surface mining operation. This definition does not relieve any operator from his reclamation responsibility for the abandoned coal waste disposal area.

2.2 Acidity means the quantitative capacity of an aqueous medium to donate protons in a reaction with hydroxyl ions.

2.3 Acid Mine Drainage means water discharged from an active, inactive, or abandoned surface mine and reclamation operations or from areas affected by surface mining and reclamation operations with said water having a pH of less than six (6.0) in which total acidity exceeds total alkalinity.

2.4 Acid-Producing Coal Seam means coal seams commonly associated with other minerals which create acid mine drainage. Coal seams commonly associated with such minerals may include, but are not limited to Waynesburg, Washington, Freeport, Sewickley, Redstone, Pittsburgh, Kittanning, Elk Lick, Peerless, No.2 Gas, Upper Eagle, No. 5 Block and Stockton Lewiston. Site specific data may, on a case-by-case basis, be accepted as an affirmative demonstration that these seams are not acid producing.

2.5 Acid-Producing Overburden means overburden which upon appropriate analysis shows a potential for producing acid mine drainage.

2.6 Acid-Test Ratio means the relation of quick assets to current liabilities.

2.7 Act means the West Virginia Surface Coal Mining and Reclamation Act, Chapter 22, Article 3 of the Code of West Virginia, 1931, as amended.

2.8 Active Surface Mining Operation means, for the purpose of permit renewal as provided in subsection 3.27 of these regulations, an operation where a Phase I bond reduction has not been approved.

2.9 Administratively Complete Application means an application for permit approval or approval for prospecting, which the Director determines to contain information addressing

each application requirement of the regulatory program and to contain all information necessary to initiate processing and public review.

2.10 Affected Area means, when used in the context of surface-mining activities, all land and water resources within the permit area which are disturbed or utilized during the term of the permit in the course of surface-mining and reclamation activities. Affected area means, when used in the context of underground mining activities, all surface land and water resources affected during the term of the permit (1) by surface operations or facilities incident to underground mining activities or (2) by underground operations. The term also includes other lands the use of which is incidental to surface coal mining and reclamation operations; all areas covered by new or existing roads used to gain access to, or for hauling coal to or from, surface coal mining and reclamation operations; any areas covered by surface excavations, workings, impoundments, dams, ventilation shafts, entryways, refuse banks, dumps, stockpiles, overburden piles, spoil banks, culm banks, tailings, holes or depressions, repair areas, storage areas, shipping areas; any areas upon which are sited structures, facilities, or other property; material on the surface resulting from, or incident to, surface coal mining and reclamation operations; and the area located above underground workings.

2.11 Asset Ratio means the relation of total assets to total liabilities.

2.12 Auger Mining means a method of mining coal at the surface by drilling or cutting horizontally into an exposed coal seam at the highwall.

2.13 Bearing Capacity means a measure, as determined by standard engineering evaluation, of the ability of a foundation material to carry loads imposed by an embankment or other structure.

2.14 Best Technology Currently Available means equipment, devices, systems, methods or techniques which will:

(a) prevent, to the extent possible, additional contributions of suspended solids to stream flow or runoff outside the permit area, but in no event result in contributions of suspended solids in excess of requirements set by applicable State or Federal laws and rules and regulations; and

(b) minimize, to the extent possible, disturbances and adverse impacts on fish, wildlife, and related environmental values and achieve enhancement of those resources where practicable.

2.15 Buffer Zone means an undisturbed border along or around an intermittent or perennial stream.

2.16 Capital Assets means those assets such as land, buildings and equipment held for use in the production or sale of other assets or services.

2.17 Cash means:

(a) all cash items except cash (1) restricted by an agreement, or (2) described as earmarked for a particular purpose; and

(b) short-term investment such as stocks, bonds, notes, and certificates of deposit, where the intent and ability to sell them in the near future is established by the operator.

2.18 Cemetery means any area of land where human bodies are interred.

2.19 Channel Protection means any measures taken to prevent or control erosion, scouring, or other deteriorating processes in channels such as diversion ditches and spillways.

2.20 Chemical Treatment means the treatment of water from a surface coal mining operation using chemical reagents such as but not limited to sodium hydroxide, calcium carbonate, or anhydrous ammonia for purposes of meeting applicable state and federal effluent limitations. Chemical treatment does not include passive treatment systems such as but not limited to limestone drains, wetlands, alkaline addition, application of flyash, agricultural lime, or injection of flyash, limestone, or other minerals into underground coal operations.

2.21 Coal Preparation means chemical or physical processing and the cleaning, concentrating, or other processing or preparation of coal.

2.22 Coal Preparation Plant means a facility operated in connection with a mine where coal is subjected to chemical or physical processing or cleaning, crushing (by any means) concentrating, screening or sizing, or other processing or preparation. It includes facilities associated with coal

preparation activities, including, but not limited to the following: loading facilities; storage and stockpile facilities; sheds; shops, and other buildings; water-treatment and water-storage facilities; settling basins and impoundments; and coal processing and other waste disposal areas.

2.23 Coal Processing Waste means materials which are separated and wasted from the product coal during its physical or chemical processing, cleaning or concentrating.

2.24 Coal Refuse Site means a deposit of coal processing waste or underground development waste.

2.25 Coal Remining Operation means a coal mining operation which begins at a site where previous coal mining was conducted before the effective date (August 3, 1977) of the federal Surface Mining Control and Reclamation Act of 1977 (PL 95-87).

2.26 Coarse Coal Refuse means coal processing waste predominantly within a size range greater than the number twenty-eight (#28) sieve size.

2.27 Collateral Bond means an indemnity agreement in sum certain executed by the permittee and supported by one or more of the following:

(a) The deposit of cash in one or more federally insured accounts, payable only to the Director upon demand;

(b) Negotiable bonds of the United States, a State, or a municipality, endorsed to the order of, and in the possession of, the Director;

(c) Negotiable certificates of deposit, payable only to the Director, and in his possession;

(d) An irrevocable letter of credit of any bank organized or authorized to transact business in the State of West Virginia, payable only upon presentation by the Director;

(e) A perfected, first-lien security interest in real property, in favor of the Director;

(f) Investment-grade rated securities, having the highest rating issued by a nationally recognized securities rating service, endorsed to the order of, and in the possession of, the Director, excluding all issues of the type traded on a commodity exchange such as contracts for future delivery of goods; or

(g) A whole life insurance policy assigned to the Division of Environmental Protection and in the possession of the Director, said policy having been issued by only those companies with an independent financial rating of A+, Aaa, or the equivalent authorized to do business in the State of West Virginia and are member insurers of the West Virginia Life and Health Insurance Guaranty Association.

2.28 Combined Coal Refuse means a mixture of coarse coal refuse and dewatered fine coal refuse.

2.29 Combustible Materials means organic materials that are capable of burning by fire or through oxidation, accompanied by the evolution of heat and a significant temperature rise.

2.30 Common Size Comparative Balance Sheet means item amounts from a number of the permittee's or applicant's successive yearly balance sheets arranged side by side in a single statement followed by common size percentages whereby:

(a) the asset total is assigned a value of one hundred percent (100%);

(b) the total of liabilities and owner equity is also assigned a value of one hundred percent (100%); and

(c) each individual asset, liability, and owner equity item is shown as a fraction of one of the one hundred percent (100%) totals.

2.31 Common Size Comparative Income Statement means an operator's income statement amounts for a number of successive yearly periods arranged side by side in a single statement followed by common size percentages whereby net sales are assigned a one hundred percent (100%) value, and then each statement item is shown as a percentage of net sales.

2.32 Community or Institutional Building means any structure, other than a public building or an occupied dwelling, which is used primarily for meetings, gatherings or functions of local civic organizations or other community groups; functions as an educational, cultural, historic, religious, scientific, correctional, mental health or physical health care facility; or is used for public services, including, but not limited to, water supply, power generation or sewage treatment.

2.33 Compaction means the densification of a soil or soil-like material by means of mechanical manipulation.

2.34 Complete and Accurate Application means an application for a surface mining permit or prospecting approval which, immediately prior to issuance, contains all maps, plans, designs and other application materials required by the Act and these rules and regulations, excluding bond, which are necessary for the Director to make a decision on approval or denial.

2.35 Completion of Reclamation means that all terms and conditions of the permit have been satisfied, the final inspection report has been approved by the Director, that all applicable effluent and applicable water quality standards are met, and the total bond has been released.

2.36 Construction Pore Pressures means water pressures generated in foundation soils or embankments due to compression by loads imposed by construction of an embankment or other structure.

2.37 Cumulative Impact means the hydrologic impact that results from the cumulation of flows from all coal mining sites to common channels or aquifers in a cumulative impact area. Individual mines within a given cumulative impact area may be in full compliance with effluent standards and all other regulatory requirements, but as a result of the co-mingling of their off-site flows, there is a cumulative impact. The Act does not prohibit cumulative impacts but does emphasize that they be minimized. When the magnitude of cumulative impact exceeds threshold limits or ranges as predetermined by the Division, they constitute material damage.

2.38 Cumulative Impact Area means the area, including the permit area, within which impacts resulting from the proposed operation may interact with the impacts of all anticipated mining on surface and groundwater systems. Anticipated mining shall include the entire projected lives through bond releases of:

(a) the proposed operation;

(b) all existing operations;

(c) any operation for which a permit application has been submitted to the Director, and;

(d) all operations required to meet diligent development requirements for leased Federal coal for which there is actual mine development information available.

2.39 Current Ratio means the relation of current assets to current liabilities.

2.40 Density means the weight of soil or soil-like solids per unit of total volume of soil or similar mass.

2.41 Design Storm means predicted precipitation of given intensity, frequency and duration based on United States Weather Bureau data.

2.42 Director means the Director of the Division of Environmental Protection or his authorized agent.

2.43 Downslope means the land surface between the projected outcrop of the lowest coal seam being mined along each highwall, or any mining-related construction, and the valley floor.

2.44 Embankment means a man made deposit of earth or waste materials, usually exhibiting at least one sloping face, that is raised above the natural surface of the land.

2.45 Embankment Stability means the degree of safety relative to a structural failure of the embankment.

2.46 Emergency Spillway means a hydraulic structure designed to pass water in excess of that which an impoundment is designed to store or which cannot be passed through a principal spillway.

2.47 Excess Spoil means overburden material disposed of in a location other than the pit.

2.48 Existing Coal Refuse Area means a refuse disposal area that is part of an active surface mining operation.

2.49 Existing Structure means a structure or facility used with or to facilitate surface coal mining and reclamation operations for which construction began prior to January 18, 1981.

2.50 Face-Up means the result of an excavation where a vertical or near vertical highwall is created that exposes the overburden and the mineral face.

2.51 Fine Coal Refuse means coal processing waste which may be disposed of in a slurry form or in a dewatered or treated state.

2.52 Foundation means soil, bedrock, or other earth material on or against which an embankment or other structure is placed.

2.53 Fragile Lands means geographic areas containing natural, ecologic, scientific or aesthetic resources that could be significantly damaged or destroyed by surface coal mining operations. Examples of fragile lands include valuable habitats for fish or wildlife, critical habitats for endangered or threatened species of animals or plants, uncommon geologic formations, national natural landmark sites, areas where mining may result in flooding, environmental corridors containing a concentration of ecologic and aesthetic features, and areas of recreational value due to high environmental quality.

2.54 Freeboard means:

(a) the vertical distance between the lowest point of the crest of the embankment and the reservoir water surface; or

(b) the vertical distance between the top of a ditch or channel and the water surface during the design flow.

2.55 Gravity Discharge means, with respect to underground mining activities, mine drainage that flows freely down gradient in an open channel. Mine drainage that occurs as a result of flooding a mine to the level of the discharge is not gravity discharge.

2.56 Groundwater means subsurface water in the zone of saturation.

2.57 Growing Season means one (1) year.

2.58 Handbook means the Technical Handbook of Standards and Specifications for Mining Operations in West Virginia.

2.59 Haulageway Road or Access Road means a surface right-of-way for purposes of travel by land vehicles used in surface mining and reclamation or prospecting operations. A road consists of the entire area within the right-of-way, including the roadbed, shoulders, parking and side areas, approaches, ditches, and other related structures. The term includes access and haulroads constructed, used, reconstructed, improved, or maintained for use in surface mining and reclamation or prospecting operations, including use by coal hauling vehicles to and from transfer, processing, or storage areas. The term does not include ramps and routes of travel within the immediate mining area or within spoil or coal mine waste disposal areas.

2.60 Hazard Potential means a classification rating assigned to a structure based on engineering evaluations and judgment predicting the potential damage to human life, property and environment should a failure of the structure occur.

2.61 Highwall means the face of exposed overburden or coal in an open cut of a surface mining operation or for entry to an underground mining operation.

2.62 Historic Lands means historic, archaeological, cultural, and scientific areas. Examples of historic lands include archaeological sites, sites listed on or eligible for listing on a state or national register of historic places, national historic landmarks, sites having cultural significance to native Americans, or religious significance to religious groups, and sites for which historic designation is pending.

2.63 Hydrologic Balance means the relationship between the quality and quantity of water inflow to, water outflow from a hydrologic unit including water stored in the unit. It encompasses the dynamic relationships among precipitation, runoff, evaporation and changes in ground and surface water levels and storage capacity.

2.64 Hydrological Isolated Operations means a surface mining operation where hydrologic impacts are negligible or are dissipated before reaching points in the system where they are additive to hydrologic impacts of other surface mining operations.

2.65 Hydrologic Regime means the entire state of water movement in a given area.

2.66 Impoundment or Impounding Structure means a basin either naturally formed or artifically built for the retention of water, sediment, slurry, or other liquid or semi-liquid material.

2.67 Infiltration means the flow or movement of water through the surface of soil or soil like material into the ground.

2.68 Inspection means a visual review of prospecting, surface or other mining operations to assure compliance with applicable laws, rules, regulations or permit conditions under jurisdiction of the Director.

2.69 Intermittent Stream means:

(a) a stream or reach of a stream that drains a watershed of at least one square mile; or

(b) a stream or reach of a stream that is below the local water table for at least some part of the year, and obtains its flow from both surface runoff and ground water discharge.

2.70 Irreparable Damage to the Environment means any damage to the environment in violation of the Act and these regulations which cannot be corrected by activities of the responsible person.

2.71 Knowingly means that an individual knew or had reason to know in authorizing, ordering or carrying out an act or omission on the part of a corporate permittee that such act or omission constituted a violation, failure or refusal.

2.72 Leachate means a liquid that has percolated through soil, rock or waste and has extracted dissolved or suspended materials.

2.73 Lightly Buffered Stream means any stream or its tributaries that contains less than fifteen (15) PPM methyl orange alkalinity (to pH 4.5) and a conductivity of less than fifty (50) micro MHO.

2.74 Liquefaction means a phenomenon wherein a saturated granular soil or soil like material loses strength and flows in a manner resembling a liquid.

2.75 Liquidity Ratio means the relation of cash to current liabilities.

2.76 Mineral Face means the exposed vertical cross section of the natural coal seam or mineral deposit.

2.77 Natural Drainway means any natural water course which may carry water to the tributaries and rivers of the watershed.

2.78 Natural Hazard Lands means geographic areas in which natural conditions exist which pose or, as a result of surface coal mining operations, may pose a threat to the health, safety or welfare of people, property or the environment, including areas subject to landslides, cave-ins, severe wind or soil erosion, frequent flooding and areas of unstable geology.

2.79 Net Profit means the bottom line of the income statement after taxes, including taxes based on income,

adjustments, all extraordinary income and expense, but before preferred and common stock dividends.

2.80 Occupied Dwelling means any building that is currently being used on a regular or temporary basis for human habitation.

2.81 Operator means any person who is granted or who should obtain a permit to engage in any activity covered by the Act or these regulations, or anyone who engages in surface mining and/or surface mining and reclamation operations. Further, the term shall be construed in a manner consistent with the federal program pursuant to Public Law 95-87.

2.82 Outer Spoil or Outer Slope means a disturbed area extending from the outer point of the bench to the extreme lower limit of the disturbed land.

2.83 Overburden means consolidated or unconsolidated material of any nature which overlies a mineral deposit, excluding topsoil.

2.84 Owned or Controlled and Owns or Controls means any one or a combination of the relationships specified in paragraphs (a) and (b) of this definition:

(a)(1) Being a permittee of a surface coal mining operation; (2) Based on instrument of ownership or voting securities, owning of record in excess of fifty (50) percent of an entity; or (3) Having any other relationship which gives one person authority directly or indirectly to determine the manner in which an applicant, an operator, or other entity conducts surface mining operations.

(b) The following relationships are presumed to constitute ownership or control unless a person can demonstrate that the person subject to the presumption does not in fact have the authority directly or indirectly to determine the manner in which the relevant surface mining operation is conducted:

(1) Being an officer or director of an entity;

(2) Being the operator of a surface mining operation;

(3) Having the ability to commit the financial or real property assets or working resources of an entity;

(4) Being a general partner in a partnership;

(5) Based on the instruments of ownership or the voting securities of a corporate entity, owning of record ten (10) through fifty (50) percent of the entity; or

(6) Owning or controlling coal to be mined by another person under a lease, sublease or other contract and having the right to receive such coal after mining or having authority to determine the manner in which that person or another person conducts a surface mining operation.

2.85 Peak Runoff means the maximum flow in a specified geographic location resulting from a given design storm.

2.86 Perennial Stream means a stream or portion of a stream that flows continuously.

2.87 Person having an interest which is or may be adversely affected or person with a valid legal interest means any person:

(a) Who uses any resource of economic, recreational, aesthetic, or environmental value that may be adversely affected by prospecting or surface mining and reclamation operations or any related action of the Director; or

(b) Whose property is or may be adversely affected by prospecting or surface mining and reclamation operations or any related action of the Director.

2.88 Piping means a process of internal erosion which occurs when water transports soil or soil like materials through unprotected exits, developing unseen channels or pipes through an embankment or its foundation.

2.89 Pit means that part of the surface mining operation from which the mineral is being actively removed or where the mineral has been removed and the area has not been backfilled.

2.90 Pre-Existing Discharge means any water discharge from the proposed disturbed area prior to disturbance as approved in a permit or a prospecting approval.

2.91 Preplan means the total application submitted to the Director including the application forms, mining and reclamation plan, drainage plan, blasting plan, planting plan, maps, drawings, data, cross-sections, bonds and other information as may be required to obtain a permit.

2.92 Principal Shareholder means any person who is the record or beneficial owner of ten percent (10%) or more of any class of voting stock.

2.93 Principal Spillway means a hydraulic structure which passes water at levels between normal pool and the emergency spillway invert elevations.

2.94 Probable Maximum Precipitation means the depth-duration-area rainfall for a particular area that represents the maximizing of meteorological conditions.

2.95 Prospecting means the field gathering of surface or subsurface geologic, physical, or chemical data by trenching, drilling, geophysical, or other techniques necessary to determine the quality and quantity of overburden and coal of an area; or the gathering of environmental data to establish the conditions of an area before beginning surface mining and reclamation operations, where such activity may cause any disturbance of the land surface or may cause any appreciable effect on land, air, water, or other environmental resources. Regardless of whether or not any disturbance is anticipated, the gathering of environmental data on lands designated unsuitable pursuant to Section 22 of the Act shall be considered prospecting and subject to the requirements of Section 13 of these regulations.

2.96 Protected Structures means for purposes of blasting, dwellings, public buildings, schools, churches, or community or institutional buildings.

2.97 Public Building means any structure that is owned or leased by a public agency or used primarily for public business or meetings.

2.98 Quick Assets means cash and current assets that can be quickly turned into cash.

2.99 Reasonably Available Spoil means spoil and suitable coal mine waste material generated by the remining operation or other spoil or suitable coal mine waste material located in the permit area that is accessible and available for use and that when rehandled will not cause a hazard to public safety or significant damage to the environment.

2.100 Recharge Capacity means the ability of the soils and underlying materials to allow precipitation to infiltrate and reach the zone of saturation.

2.101 Reclamation means those actions taken to restore mined land to the approved post mining land use.

2.102 Remined Area means only that area of any coal remining operation on which coal mining was conducted before the effective date of the federal Surface Mining Control and Reclamation Act of 1977 (PL-95-87).

2.103 Renewable Resource Lands means aquifers and areas for the recharge of aquifers and other underground waters, areas for agricultural or silvicultural production of food and fiber, and grazing lands.

2.104 Retained Earnings means stockholder's equity that has arisen from retained assets from earnings in the business. This shall include only earnings from normal operations and not gains from such transactions as the sale of plant assets or investments.

2.105 Return On Investment means the relation of net profit for the last yearly period to ending net worth.

2.106 Safety Factor means the ratio of the sum of the resisting forces to the sum of the loading forces in a constructed valley fill, backfill, dam, or refuse pile.

2.107 Sediment means solid material that is either in suspension, is being transported, or has been moved from its site of origin and has come to rest on the earth's surface.

2.108 Sediment Control or Other Water Retention Structure, Sediment Control or Other Water Retention System, or Sediment Pond means an impoundment designed, constructed, and maintained in accordance with these regulations for the purpose of removing solids from water in order to meet applicable water quality standards or effluent limitations before the water is discharged into the receiving stream.

2.109 Self-Bond means an indemnity agreement in a sum certain payable to the Director, executed by the permittee and by each individual and business organization capable of influencing or controlling the investment or financial practices of the permittee by virtue of his authority as an officer or ownership of all or a significant part of the permittee, and supported by agreements granting the Director a security interest in real or personal property pledged to secure performance by the permittee.

2.110 Significant Aquifer means a stratum or group of strata that can store and transmit water in significant quantities for a specific use.

2.111 Slope Protection means measures taken to control erosion on slopes.

2.112 Slope Stability means the relative degree of safety from the development of a landslide in a slope, as defined by one or more standard engineering methods of analysis.

2.113 Spoil means overburden that has been removed during surface mining operations.

2.114 Stabilize means to control movement of soil, spoil piles or areas of disturbed earth.

2.115 Strength Parameters mean those engineering values obtained from standard engineering shear strength tests of soil or soil like material.

2.116 Structure means, except as used in the context of subsection 3.8 of these regulations, any man-made structures within or outside the permit areas which include, but is not limited to: dwellings, outbuildings, commercial buildings, public buildings, community buildings, institutional buildings, gas lines, water lines, towers, airports, underground mines, tunnels and dams. The term does not include structures built and/or utilized for the purpose of carrying out the surface mining operation.

2.117 Sub-Drainage System means a designed and constructed system provided for the conveyance of subsurface water.

2.118 Subsidence means, as it relates to underground mining operations or auger mining, a sinking, collapsing or cracking of a portion of the earth's surface caused by voids beneath the surface created by mining.

2.119 Substantial Legal and Financial Commitments in a Surface Coal Mining Operation means that significant investments and legal commitments have been made in activities and facilities such as power plants, railroads, coal handling, preparation, extraction or storage facilities and other capital-intensive activities on the basis of a long term coal contract.

2.120 Substantially Disturb means, for purposes of prospecting, to significantly impact land or water resources by

blasting; by removal of vegetation, topsoil, or overburden; by construction of roads or other access routes; by placement of excavated earth or waste material on the natural land surface or by other such activities; or to remove more than 250 tons of coal.

2.121 Successor in Interest means any person who succeeds to rights granted under a permit by transfer, assignment or sale of those rights.

2.122 Surety Bond means an indemnity agreement in a sum certain payable to the Director executed by the permittee which is supported by the performance guarantee of a corporation licensed to do business as a surety in the State of West Virginia.

2.123 Surface Mining and Reclamation Operation means surface coal mining operations and all activities necessary or incidental to the reclamation of such operations.

2.124 Surface Water means water on the surface of the earth.

2.125 Topsoil means the A and E-horizon soil layer of the four (4) major soil horizons.

2.126 Toxic-Forming Materials means earth materials or wastes which, if acted upon by air, water, weathering or microbiological processes, are likely to produce chemical or physical conditions in soils, air or water that are detrimental to the environment.

2.127 Toxic Mine Drainage means water that is discharged from active or abandoned mines or other areas affected by surface mining operations, reclamation operations, or prospecting operations which contains a substance which through chemical action or physical effects, is likely to kill, injure or impair biota commonly present in the area that might be exposed to it.

2.128 Transfer, Assignment or Sale of Rights means a change in ownership pursuant to subsection 2.83 or other effective control over the right granted in a permit or approval to conduct surface mining operations.

2.129 Underground Development Waste means waste rock mixtures of coal, shale, claystone, siltstone or other related materials that are brought to the surface for disposal.

2.130 Valid Existing Rights exists, except for haulroads, in each case in which a person demonstrates that the limitation provided for in the Act would result in the unconstitutional taking of that person's rights. For haulroads, valid existing rights means a road or recorded right-of-way or easement for a road which was in existence prior to August 3, 1977. A person possesses valid existing rights if he can demonstrate that the coal is immediately adjacent to an ongoing mining operation which existed on August 3, 1977 and is needed to make the operation as a whole economically viable. Valid existing rights shall also be found for an area where a person can demonstrate that an SMA number had been issued prior to the time when the structure, road, cemetery or other entity came into existence.

2.131 Valley or Head-of-Hollow Fill means a fill structure consisting of any material, other than organic material, placed in a valley where side slopes of the existing valley measured at the steepest point are greater than twenty (20) degrees or the average slope of the profile of the hollow from the toe of the fill to the top of the fill is greater than ten (10) degrees. In head-of-hollow fills the top surface of the fill, when completed, is at approximately the same elevation as the adjacent ridge line, and no significant area of natural drainage occurs above the fill draining into the fill area.

2.132 Violation, Failure or Refusal means a violation of a condition of a permit issued pursuant to the Act or these rules and regulations; or a failure or refusal to comply with any order issued under Sections 15, 16, or 17 of the Act, or any order incorporated in a final decision issued by the Director under the Act, except an order incorporated in a decision issued under paragraph (1), subsection (d), Section 17 of the Act.

2.133 Willfully means that an individual acted:

(a) Either intentionally, voluntarily or consciously; and

(b) With intentional disregard or plain indifference to legal requirements in authorizing, ordering or carrying out a corporate permittee's action or omission that constituted a violation, failure or refusal.

2.134 Woodlands means commercial woodlands where the post-mining land use would result in the development of a commercial product where flat or gently rolling land is essential for the operation of mechanical harvesting equipment.

2.135 Working Capital means the excess of the operator's current assets over its current liabilities.

2.136 Zone of Saturation means the zone below the piezometric surface in which all voids are filled with groundwater.

38-2-3. Permit Application Requirements and Contents

3.1 Applicant Information. All information provided by an applicant in an application for a surface mining permit shall be clear and concise and shall be provided in a format prescribed by the Director and/or a format required by the Federal Office of Surface Mining Reclamation and Enforcement. In addition to the information requirements of Section 9 of the Act, each application for a permit shall contain the following information except that submittal of a social security number is at the option of the applicant:

(a) A statement as to whether the applicant is a corporation, partnership, sole proprietorship, association, or other business entity.

(b) The name, address, telephone number and, as applicable, social security number and employer identification number of the:

(1) Applicant;

(2) Applicant's resident agent; and

(3) Person who will pay the abandoned mine land reclamation fee.

(c) List, for each person who owns or controls the applicant under the definition of "owned or controlled" and "owns and controls" in subsection 2.83 of these regulations (as applicable):

(1) The person's name, address, social security number, and employer identification number;

(2) The person's ownership or control relationship to the applicant, including percentage of ownership and location in organizational structure;

(3) The title of the person's position, date position was assumed, and when submitted under paragraph (h), subsection 3.33 of these regulations, date of departure from the position;

(4) Each additional name and identifying number, including employer identification number, Federal or State permit number, and MSHA number with date of issuance, under which the person owns or controls, or previously owned or controlled, a surface coal mining and reclamation operation in the United

States within the five (5) years preceding the date of the application; and

(5) The application number or other identifier of, and the regulatory authority for, any other pending surface coal mining operation permit application filed by the person in any state in the United States.

(d) List, for any surface coal mining operation owned or controlled by either the applicant or by any person who owns or controls the applicant under the definition of "owned or controlled" and "owns or controls" in subsection 2.83 of these regulations, the operation's:

(1) Name, address, identifying numbers, including employer identification number, Federal or State permit number and MSHA number, the date of issuance of the MSHA number, and the regulatory authority; and

(2) Ownership or control relationship to the applicant, including percentage of ownership and location in organizational structure.

(e) The name and address of each legal or equitable owner of record of the surface and mineral property to be mined, each holder of record of any leasehold interest in the property to be mined, and any purchaser of record under a real estate contract for the property to be mined.

(f) The name and address of each owner of record of all property (surface and subsurface) within one hundred (100) feet of any part of the proposed permit area.

(g) The Mine Safety and Health Administration (MSHA) numbers for all mine-associated structures identified in the permit that require MSHA approval.

(h) A statement of all lands, interest in lands, options, or pending bids on interests held or made by the applicant for lands contiguous to the area described in the permit application. If requested by the applicant, any information required by this paragraph which is not on public file pursuant to the Act shall be held in confidence.

(i) A statement of whether the applicant or any subsidiary, affiliate, or persons owned or controlled or under control or ownership with the applicant has:

(1) Had a Federal or State coal mining permit suspended or revoked in the five (5) years preceding the date of submission of the application; or

(2) Forfeited a performance bond or similar security deposited in lieu of bond.

(j) A brief explanation of the facts involved if any such suspension, revocation, or forfeiture referred to in parts (1) and (2) of paragraphs (i) of this subsection has occurred, including:

(1) Identification number and date of issuance of the permit, and the date and amount of bond or similar security;

(2) Identification of the authority that suspended or revoked the permit or forfeited the bond and the stated reasons for the action;

(3) The current status of the permit and bond, or similar security involved;

(4) The date, location, and type of any administrative or judicial proceedings initiated concerning the suspension, revocation, or forfeiture; and

(5) The current status of any administrative or judicial proceedings.

(k) A list for any violation of a provision of the Act or these regulations and any other Federal or State laws, rules and regulations pertaining to air or water environmental protection incurred in connection with any surface mining operation received by the applicant during the three (3) year period preceding the application date, and a list of all unabated cessation orders, and unabated air and water quality violation notices received prior to the date of the application by any surface mining and reclamation operation owned or controlled by either the applicant or by any person who owns or controls the applicant. For each violation notice or cessation order reported, the lists shall include the following information as applicable:

(1) Any identifying numbers for the operation, including the Federal or State permit number and MSHA number, the dates of issuance of the violation notice and MSHA number, the name of the person to whom the violation notice was issued, and the name of the issuing regulatory authority, department or agency;

(2) A brief description of the violation alleged in the notice;

(3) The date, location, and type of any administrative or judicial proceedings initiated concerning the violation, including, but not limited to, proceedings initiated by any person to obtain administrative or judicial review of the violation;

(4) The current status of both the proceedings and the violation notice; and

(5) The actions, if any, taken by any person to abate the violation.

(l) Each application for a permit shall contain a sworn statement as follows: "The information contained in this application is true and correct to the best of my knowledge and belief." Such statement shall be signed by an accountable official of the applicant and shall be notarized.

(m) The applicant for a permit or a revision of a permit shall have the burden of establishing that his application is in compliance with all the requirements of the Act and these rules and regulations.

(n) After an applicant is notified that the application is approved, but before the permit is issued, the applicant shall update and correct the information previously submitted under this subsection or indicate that no change in such information has occurred.

(o) Upon request by one or more permittees related through ownership and control, and with the approval of the Director, a permittee, or permittees related through ownership and control, may submit and maintain a centralized ownership and control file.

Any permit application which references an approved centralized ownership and control file may be determined to be complete and accurate for the purposes of this subsection. Each centralized ownership and control file shall at a minimum:

(1) Contain the information required by paragraphs (a), (c), (d), and (l) of this subsection on such forms, or in the format, as may be required by the Director;

(2) Provide a procedure for the file to be updated at least quarterly, although this requirement does not relieve an

applicant from having complete and accurate information in the centralized ownership and control file during the time it has an application pending; and

(3) Provide that the applicant maintain a copy or copies of the file in any required courthouses, regional offices, and other public offices, during any required public notice period, when referenced in an application that is otherwise required to be made available in such offices.

3.2 Advertisement.

(a) SMA File Number. Prior to the publication of an advertisement for a surface mining permit in accordance with paragraph (6), subsection (a), Section 9 of the Act, the applicant shall submit an administratively complete surface mining permit application and obtain a surface mining application (SMA) file number. Each SMA number shall be valid for one year; provided, that the Director may extend an SMA number beyond one year, if the application has been diligently pursued by the applicant throughout the life of the SMA number. In order for an SMA number to be extended, the applicant must submit to the Director a written request, which shall state the reason(s) and which shall demonstrate good cause for the extension.

(b) Advertisement Information. Each advertisement will contain at a minimum:

(1) The surface mining application (SMA) file number;

(2) A clear and accurate location map of a scale and detail found in the West Virginia General Highway Map. The map size will be at a minimum four inches (4") x four inches (4"). Longitude and latitude lines and north arrow will be indicated on the map and such lines will cross at or near the center of the proposed permit area;

(3) The names and business address of the applicant to include a street address or route number;

(4) A narrative description clearly describing the location of the proposed permit area;

(5) The name(s) of the coal seam(s) to be mined;

(6) The name(s) of the receiving stream(s) into which drainage from the permit area will be discharged;

(7) The location where a copy of the application is available for public review;

(8) The name and address of the Division of Environmental Protection Office where written comments or requests for informal conferences on the application may be submitted;

(9) The type of operation;

(10) Surface and mineral ownership of the tract(s) to be permitted;

(11) Surface and mineral ownership of property within one hundred (100) feet of the permit area;

(12) Where the permit application reflects that mining will occur within one-hundred feet (100') of the outside right-of-way of a public road (except where mine access roads or haulage roads join such right-of-way), the applicant may choose one of the following procedures to satisfy the additional public notice requirement:

(A) Include in the advertisement required in this section a concise statement:

(i) Identifying the road to be affected;

(ii) Identifying the affected segment; and

(iii) Advising that a public hearing may be requested; or

(B) A separate public notice may be published, prior to issuance of a permit, which:

(i) Identifies the road to be affected;

(ii) Identifies the affected segment; and

(iii) Advises that a public hearing may be requested.

(13) Where the permit applicant proposes to relocate or close a public road, the advertisement shall include a concise statement which:

(A) Describes the identification number and geographic location of the road;

(B) Describes the particular segment to be relocated or closed;

(C) Describes where the relocated segment is to be sited;

(D) Describes the approximate time and duration of the relocation or closure; and

(E) Advises that a public hearing may be requested.

(14) Where an alternative land use is proposed, indicate the premining land use and the proposed postmining land use; and

(15) Where an experimental practice is proposed, the advertisement shall contain a statement indicating such and identifying applicable provisions for which a variance is requested.

(c) Notice to Governmental Agencies. Upon receipt of an administratively complete application for a surface mining and reclamation permit, a permit revision or a permit renewal, the Director shall notify all Federal or State government agencies with authority to issue permits and licenses applicable to the proposed surface mining and reclamation operation or those agencies with an interest in the proposed operation, including the U. S. Department of Agriculture Soil Conservation Service district office, the local U. S. Army Corps of Engineers district engineer, the National Park Service, State and Federal fish and wildlife agencies, and the historic preservation officer.

(d) Availability of Comments. The Director shall place on file at the regional office in which a permit, permit revision or renewal of a permit is filed, a copy of all public comments received as a result of the advertisement and shall provide the applicant with such comments. When a permit, permit revision or renewal of a permit is issued or approved, the Director shall notify within ten (10) days each person who filed comments or objections to the application, each party to an informal conference, and the appropriate local governmental agencies including the clerk of the county commission. The Director shall also cause to be published at least monthly a listing of all permits issued, which listing shall include a description of the

location of the land to be affected. The listing shall also be forwarded to the Clerk of the County Commission.

(e) Readvertisement. After a Surface Mine Application (SMA) has been advertised once a week for four successive weeks, and is determined by the Director to have had a limited number of minor changes which do not significantly affect the method of operation, the reclamation plan, and/or the original advertisement, he may require one (1) additional advertisement to be published with a ten (10) day public comment period. Permits which are being renewed or significantly revised and permit applications which are being significantly revised must be advertised in accordance with paragraph (b) of this subsection and paragraph (6), subsection (a), section 9 of the Act.

(f) Renotification. A renotification letter shall be sent to all commentors of a surface mine application (SMA) when a determination has been made by the Director that readvertisement is required in accordance with paragraph (e) of this subsection.

(g) Certification of Publication. The advertisement and publication dates for all permit applications, permit renewal applications, applications for revision of a permit, and transfer assignment and sale of permits, shall be certified and notarized by the publishing newspaper. The certificate of publication shall be made a part of the approved application no later than four (4) weeks after the last date of publication.

3.3. Occupied Dwellings.

(a) Valid Existing Rights. Where the proposed surface coal mining operations would be conducted within three hundred (300) feet, measured horizontally, of any occupied dwelling, the permit applicant shall submit with the application a notarized written waiver by lease, deed, or other conveyance from the owner of the dwelling, clarifying that the owner and signator had the legal right to deny mining and knowingly waived that right. The waiver shall act as consent to such operations within a closer distance of the dwelling as specified.

(b) Waiver. Where the applicant for a permit had obtained a valid waiver prior to August 3, 1977, from the owner of an occupied dwelling to mine within three hundred (300) feet of such dwelling, a new waiver shall not be required:

(1) Where the applicant for a permit had obtained a valid waiver from the owner of an occupied dwelling, that waiver shall remain effective against subsequent purchasers who had

actual or constructive knowledge of the existing waiver at the time of purchase.

(2) A subsequent purchaser shall be deemed to have constructive knowledge if the waiver has been properly filed in public property records pursuant to State laws or if the mining has proceeded to within the three hundred (300) feet limit prior to the date of purchase.

3.4 Maps.

(a) Scale for Maps. Except as otherwise noted in these rules and regulations, the scale required for all maps shall be as follows:

(1) The preferred scale of maps prepared from United States Geological Survey topographic maps on 7.5 minute quadrangle shall be five hundred feet (500') to the inch;

(2) The preferred scale for maps associated with underground coal mining operations and facilities incidental to coal mining shall be two hundred feet (200') to the inch; and

(3) Other scales may be used where improved clarity and accuracy are achieved.

(b) Map Size. All maps and plans shall be submitted on print paper, thirty inches (30") by forty-two inches (42") or less. If supplementary maps or plans are attached, match lines shall be used.

(c) Color Code. A color code shall be used in preparing all maps to indicate critical features of the permit area as follows; provided, that drafted or computer generated graphic symbols or shading may be used in place of a color code, if a separate, uniquely identifiable, and clearly discernible symbol or shading is provided in place of each color as specified below, and if the symbols or shading are clearly defined on map legends and used consistently throughout the permit application, and in any subsequent permit revisions, progress maps, or other submittals relating to the permit:

(1) Red shall indicate mineral to be removed;

(2) Blue shall indicate water and drainage patterns;

(3) Green shall indicate areas regraded;

(4) Yellow shall indicate all other areas within the permit boundary; and

(5) Purple shall be used to outline adjacent mining permits.

(d) Preplan. In addition to the requirements of paragraphs (12) and (13) of subsection (a) Section 9 of the Act and Section 10 of the Act, the application shall include as applicable the following information:

(1) The location and current use of all structures within one thousand feet (1000') of the proposed permit area;

(2) All public roads located on or within one hundred feet (100') of the proposed permit area;

(3) The boundaries of any public park or historic lands within or adjacent to the permit area;

(4) All cemeteries located on or within one hundred feet (100') of the proposed permit area;

(5) Any portion of a unit of the National System of Trails or the Wild and Scenic River System, including study rivers designated under Section 5(a) of the Wild and Scenic Rivers Act which are located within or adjacent to the proposed permit area;

(6) The current use and land use classifications of the area of land and adjacent lands upon which the permit is sited and adjacent lands;

(7) The location of all existing structures to be used for surface mining operations which are to be exempt from design standards;

(8) The date the map was prepared, a north arrow, quadrangle name and location map;

(9) Where the natural slope of the land below the coal outcrop is less than twenty (20) degrees and downslope placement of overburden or spoil is proposed, the map shall indicate percent slope of the land at two hundred foot (200') intervals along the cropline;

(10) The location of each facility to be used to protect or enhance fish and wildlife and related environmental values;

(11) Where the proposed permit area has been previously mined and to the extent that such information is available, list the type of mining used, the coal seam or other mineral mined, the extent of mineral removed, and the approximate date of mining;

(12) Extent of proposed auger operations;

(13) Surface and mineral owners and property lines within the permit area and within one hundred (100) feet of any point of the permit area;

(14) Location of water supply intakes for current users of surface water;

(15) Location and identification of sub-areas if incremental bonding is to be used;

(16) Location and extent of subsurface water, if encountered, within the proposed permit or adjacent areas, including, but not limited to, areal and vertical distribution of aquifers, and portrayal of seasonal differences of head in different aquifers on cross sections and contour maps;

(17) The location of all oil and gas wells and other utilities within the proposed permit area are to be shown;

(18) The location and extent of topsoil borrow areas, and the location of topsoil storage areas;

(19) Air pollution monitoring and control facility and subsidence monitoring location;

(20) Any permanent facility to remain after mining;

(21) All coal storage, cleaning, loading, and refuse disposal areas;

(22) The location of any non-coal waste storage areas;

(23) The location of any explosive storage and handling facility; which will remain in place for an extended period of time during the life of the operation and

(24) The area of land to be affected within the proposed permit area according to the sequence of mining and reclamation.

(e) Drainage Map. Unless the information required by this paragraph can be shown on the preplan map in a clear and legible fashion, a separate drainage map of the same size scale and detail of the preplan map shall be made a part of the permit application and shall contain the following:

(1) The directional flow of water on and away from the permit area;

(2) Location of all monitoring sites used to develop surface and groundwater base line information;

(3) Location of all surface and ground water monitoring sites to be used for satisfying reporting requirements during the mining operation;

(4) Location of all erosion and sedimentation control structures; and

(5) The extent and boundaries of each component drainage area.

(f) Supplemental maps for underground coal mining permit applications. In addition to other maps required in this Section, each permit application for underground mining operations shall include supplemental maps as follows:

(1) A U.S.G.S. topographic map of the area extending beyond the proposed mining limits and showing the following:

(A) Name and series of the sheet;

(B) Scale, latitude, and longitude;

(C) Limits of underground mining operation proposed;

(D) Surface area to be permitted;

(E) Cropline of the coal seam to be mined;

(F) Location and identification of all mine openings for the proposed mine including shafts, slopes, drifts, boreholes, etc; and

(G) Location of all surface structures not owned by the applicant over the area to be mined.

(2) A mine development map drawn to scale showing:

(A) Boundaries of underground mining operation and any adjacent active or abandoned mines in the same seam;

(B) All owners of property and all residents within the area above the proposed underground workings. The area above the underground works shall mean within the angle of critical deformation but at least 15° from any coal removal;

(C) Present extent of underground mining as well as projected headings;

(D) Date, scale, north arrow, dip, strike, and average dip of the coal seam to be mined;

(E) All gas wells, oil wells, water wells, and test drill holes;

(F) Location of all known faults;

(G) Area and extent of previous or proposed auger or strip mining in the same seam;

(H) Location and thickness of outcrop barriers; and

(I) Elevation of all entries, fanways and boreholes.

3.5 Cross Sections and Profiles. The application shall contain cross-sections and/or profiles which accurately depict:

(a) The existing premining surface configuration and the final surface configuration that will be achieved. Cross sections shall be developed from sufficient slope measurements to adequately represent the existing land surface configuration of the proposed permit area. Slope measurements shall take into account natural variations in slope, to provide accurate representation of the range of natural slopes and reflect geomorphic differences of the area to be disturbed. The Director may require additional slope measurements at specified intervals and locations on a site-by-site basis;

(b) The vertical distribution of aquifers showing seasonal differences in head, if available, for the proposed permit area;

(c) Cross sectional area and profiles of excess spoil disposal areas with all appurtenances shown including rock cores, subsurface drains, surface drainage structures, foundations, etc;

(d) Cross sectional areas and profiles of all drainage and sediment control structures including ponds, impoundments, diversions, sumps, etc; and

(e) Cross sectional areas and profiles of all roads.

3.6 Operation Plans and Specifications. Each application shall contain in addition to other plans, specifications, and descriptions required by the Act and these regulations a description of the mining operations proposed to be conducted during the life of the mine within the proposed permit area, including, at a minimum, the following:

(a) A narrative description of the type and method of coal mining procedures and proposed engineering techniques, anticipated annual and total production of coal, by tonnage, and the major equipment to be used for all aspects of those operations; and

(b) A narrative explaining the construction, modification, use, maintenance, and unless retention of such facilities is necessary for postmining land use, removal of the following facilities:

(1) Dams, embankments, and other impoundments;

(2) Overburden and topsoil handling and storage areas and structures;

(3) Coal removal, handling, storage, cleaning, and transportation areas and structures;

(4) Spoil, coal processing waste, and non-coal waste removal, handling, storage, transportation, and disposal areas and structures;

(5) Mine facilities; and

(6) Water and air pollution control facilities.

(c) A description of how the applicant will case, seal or otherwise manage augerholes, boreholes, shafts, wells and other openings;

(d) A description of how the applicant will remove, store and redistribute topsoil, subsoil or topsoil substitutes, and other materials. When topsoil substitutes are proposed, the suitability determination, analytical data, and laboratory certification required in paragraph (c), subsection 14.3, of these regulations shall be made a part of the permit application;

(e) Where topsoil borrow areas are proposed, the applicant shall submit a reclamation plan for such areas;

(f) A description of how the applicant will handle acid forming and toxic forming materials and materials constituting a fire hazard;

(g) The design and construction of excess spoil disposal areas; and

(h) The design and construction of a drainage and sediment control system to include:

(1) A description, map, and cross section of the structure and its location;

(2) Preliminary hydrologic and geologic information required to assess the hydrologic impact of the structure;

(3) A survey describing the potential effect on the structure from subsidence of the subsurface strata resulting from past underground mining operation if underground mining has occurred;

(4) A certification statement which includes a schedule for the submission of any detailed design plans for structures that are not submitted with the general plan. The Director shall have approved, in writing, the detailed design plan for a structure before construction begins;

(5) Each structure design plan that is of such size or storage capacity that it is a dam as defined in Article 5D of Chapter 20, Code of West Virginia, shall be prepared by, or under direction of, and certified by a qualified registered professional engineer;

(6) The design shall include any geotechnical investigation and construction requirements for the structure;

(7) A description of the operation and maintenance requirements for each structure; and

(8) A timetable and plans to remove each structure, if appropriate.

(i) The design and construction of all roads; and

(j) A vegetation plan.

(k) A plan for fugitive dust control practices as required in subsection 14.17 of these regulations.

(l) For area mining operations, as referenced in subparagraph (b)(4) of subsection 14.15, mountaintop removal operations as referenced in subparagraph (b)(5) of subsection 14.15, and for multiple seam mining operations, the applicant shall include a site specific and detailed plan showing the sequence and schedule for backfilling and regrading.

3.7 Disposal of Excess Spoil.

(a) Each application shall contain descriptions, including appropriate maps, cross sections, drawings, and design of the excess spoil disposal structures which will comply with the standards of subsection 14.14 of these regulations. These plans shall describe the design, construction, operation, maintenance, and if appropriate, removal of the site and structures.

(b) Each application shall contain the results of a geotechnical investigation of the proposed disposal site, including the following:

(1) The character of bedrock and any adverse geologic conditions in the disposal area;

(2) A survey identifying all springs, seepage, and ground water flow observed or anticipated during wet periods in the area of the disposal site;

(3) A survey of the potential effects of subsidence of the subsurface strata due to past and future mining operations;

(4) A technical description of the rock materials to be utilized in the construction of those disposal structures

containing rock chimney cores or underlain using a rock drainage blanket;

(5) A stability analysis including, but not limited to, strength parameters, pore pressures and long-term seepage conditions. These data shall be accompanied by a description of all engineering design assumptions and calculations and the alternatives considered in selecting the specific design specifications and methods; and

(6) An explicit identification, by narrative and by mapping, of the critical foundation area(s) for the structure, as the term is applied in subsection 14.14. The selection of the critical foundation area(s) shall be based on the results of the geotechnical investigation, shall be certified as a part of the design by a registered professional engineer, and shall be subject to review and approval by the Director.

(c) If rock-toe buttresses or key-way cuts are required, the application shall include the following:

(1) The number, location, and depth of borings or test pits which shall be determined with respect to the size of the spoil disposal structure and subsurface conditions; and

(2) Engineering specifications utilized to design the rock-toe buttresses or key-way cuts which shall be determined in accordance with subparagraph (5), paragraph (b) of this subsection.

3.8 New and Existing Structures and Support Facilities:

(a) Each application for a permit will contain a description, plans, and drawings for each support facility to be constructed, used, or maintained within the proposed permit area. The plans and drawings shall include a map, appropriate cross sections, design drawings, and specifications sufficient to demonstrate compliance with subsection 4.11 of this rule.

(b) Each application shall contain a description of each existing structure or facility proposed to be used in connection with or to facilitate the surface mining and reclamation operation. The description shall include:

(1) Location;

(2) Plans of the structure which describe its current condition;

(3) Approximate dates on which construction of the existing structure was begun and completed;

(4) A showing, including relevant monitoring data or other evidence, as to whether or not the structure meets the performance standards of the Act and these regulations; and

(5) A compliance plan for each existing structure proposed to be modified or reconstructed for use in connection with or to facilitate the surface coal mining and reclamation operation. The compliance plan shall include:

(A) Design specifications required for the modification or reconstruction of the structure to bring it into compliance with current design requirements and performance standards of the Act and these rules and regulations.

(B) A construction schedule which shows dates for beginning and completing interim steps and final construction.

(C) Provisions for monitoring the structure during and after modification or reconstruction to ensure that the performance standards of the Act and these regulations are met.

(D) A showing that the risk of harm to the environment or to public health or safety is not significant during the period of modification or reconstruction.

(c) Structures and facilities designed, constructed or in use pursuant to an approved surface mining permit or prospecting approval prior to the effective date of these regulations may be subject to revision or reconstruction where the Director determines that such revision or reconstruction is necessary to comply with the performance standards set forth in the Act and these regulations; provided, that the Director will notify the permittee that such revision or reconstruction is necessary and shall provide a reasonable time for compliance.

(d) The plans of a facility or structure that is to be shared by two or more separately permitted mining operations may be included in one permit application and referenced in the other application. Each permittee shall bond the facility or structure unless the permittees sharing it agree to another arrangement for assuming their respective responsibilities. If such agreement is reached, then the application shall include a copy of the agreement between or among the parties setting forth the respective bonding responsibilities of each party for the facility or structure. The agreement shall demonstrate to the

satisfaction of the Director that all responsibilities under the Act for the facility or structure will be met.

3.9 Operation(s) Near Public Road.

(a) Where the proposed mining operation is to be conducted within one hundred feet (100') (measured horizontally) of the outside right-of-way of any public road (except where mine access roads or haulage roads join such right-of-way) or where the applicant proposes to relocate or close any public road, the Director shall:

(1) Where the public road is to be closed or relocated, require the applicant to obtain necessary permission from the authority with jurisdiction over the public road.

(2) Provide an opportunity for a public hearing in the locality of the proposed mining operation for the purpose of determining that the interests of the public and affected landowners will be protected.

(3) Upon request for a public hearing by any person, require the applicant to hold a public hearing and give notice of the date, time, and place of the hearing in a newspaper of general circulation in the area of the proposed mining operation at least two (2) weeks in advance of the hearing date.

(4) Make a written finding within thirty (30) days following the hearing or after the close of the comment period as to whether or not the interests of the public and the affected landowners will be protected. Each participant of record at the public hearing shall be notified of the Director's findings.

3.10 Experimental Practices.

(a) Each permit application or permit revision shall contain plans and specifications of any proposed experimental practices to be employed as a part of the mining and reclamation operation. All experimental practices shall have prior approval of the Director and the director of the Federal Office of Surface Mining Reclamation and Enforcement before a permit or revision can be issued. An application for an experimental practice shall contain descriptions, maps, plans, and data which show:

(1) The nature of the experimental practice, including a description of any performance standards for which variances are requested, the duration of the experimental practice, and any special monitoring which will be conducted;

(2) How use of the experimental practice encourages advances in mining and reclamation technology or allows a postmining land use for industrial, commercial, residential, or public use (including recreation facilities) on an experimental basis;

(3) The experimental practice:

(A) Is potentially more, or at least as, environmentally protective, during and after mining operations, as would otherwise be required by the Act and these regulations.

(B) Will not reduce the protection afforded public health and safety below that provided by the requirements of the regulations.

(4) That the applicant will conduct monitoring of the effects of the experimental practice. The monitoring program shall ensure the collection, analysis, and reporting of reliable data that are sufficient to enable the Director and the director of the Federal Office of Surface Mining Reclamation and Enforcement to:

(A) Evaluate the effectiveness of the experimental practice; and

(B) Identify, at the earliest possible time, potential risk to the environment and public health and safety which may be caused by the experimental practice during and after mining.

(5) That the applications for experimental practice under this section will comply with the public notice requirements of the Act and these regulations.

(b) Each permit approved for experimental practices shall be reviewed by the Director at least annually following date of issuance. The Director may, on the basis of this review, require modifications to the experimental practice.

3.11 <u>In Situ Mining</u>. Any application for a permit for operations covered by this subsection shall be made according to all requirements of this section applicable to underground mining activities. In addition, the mining and reclamation operations plan for operations involving in situ processing activities shall contain information establishing how those operations will be conducted in compliance with the requirements of Section 15 of these regulations, including:

(a) Delineation of proposed holes and wells and production zone for approval of the Director;

(b) Specifications of drill holes and casings proposed to be used;

(c) A plan for treatment, confinement or disposal of all acid-forming, toxic-forming or radioactive gases, solids, or liquids constituting a fire, health, safety or environmental hazard caused by the mining and recovery process; and

(d) Plans for monitoring surface and ground water and air quality, as required by the Director.

3.12 Subsidence Control Plan.

(a) Each application for an underground coal mining permit shall contain a subsidence control plan which includes the following:

(1) A survey that identifies, on a topographic map of a scale of 1" = 1,000′ or less, structures, perennial and intermittent streams or renewable resource lands and whether or not subsidence could cause material damage or diminution of value or use of such structures or renewable resource lands both on the permit area and adjacent areas within a critical angle of deformation of at least 15°;

(2) A general description of the technique of coal removal, such as longwall, room and pillar, pillar removal, hydraulic mining or other extraction methods and the size, sequence, and timing of underground development of the mine;

(3) An isopach map or other map showing surface contours and bottom of coal contours and the location and extent of areas in which planned subsidence is projected, including anticipated effects, and all areas in which measures described in subparagraphs (7) and (8) of this paragraph will be taken to prevent or minimize subsidence and related damage and where appropriate to correct subsidence related damage;

(4) A description of the physical conditions, such as depth of cover, seam thickness, strike and dip, lithology, and other geologic and hydrologic conditions, which affect the likelihood or extent of subsidence and subsidence-related damage;

(5) A description of the measures to be taken, in accordance with paragraphs (a), (c) and (d) of subsection 16.2 of

these regulations, to mitigate or remedy any material damage or diminution in value or foreseeable use that may occur to surface lands, structures, or facilities due to subsidence;

(6) An acknowledgment that if subsidence causes material damage or reduces the value or reasonably foreseeable use of the surface lands, then the operator shall restore the land to a condition capable of supporting uses it was capable of supporting before subsidence regardless of the right to subside;

(7) Except for those areas where planned subsidence is projected to be used, a detailed description of the subsidence control measures that will be taken to prevent or minimize subsidence and subsidence-related damage, including, but not limited to:

(A) Backstowing or backfilling of voids;

(B) Leaving support pillars of coal;

(C) Leaving areas in which no coal is removed, including a description of the overlying area to be protected by leaving the coal in place; and

(D) Taking measures on the surface to prevent material damage or lessening of the value or reasonably foreseeable use of the surface.

(8) A description of monitoring plans, if any, to determine the commencement and degree of subsidence so that other appropriate measures can be taken to prevent, reduce, or correct material damage.

(b) The Director may waive the remainder of the requirements for a subsidence control plan if the survey required by paragraph (a)(1) of this subsection demonstrates, and the Director determines, that no material damage or diminution of value or foreseeable use of the land or structures could be caused by subsidence.

(c) When an applicant feels it has the right to subside, it will provide adequate documentation of same.

(d) Where longwall mining or room and pillar mining with 80% recovery or greater is proposed, the following information shall be made a part of the plan:

(1) Typical predicted subsidence profile(s) for areas of planned subsidence. Specify from what source information was obtained to develop the predicted profile(s) including an explanation of the method and calculations used to develop prediction.

(2) For all areas identified by the survey, indicate what measures will be taken to minimize material damage or reduction in value or reasonably foreseeable use. Indicate those areas in which measures are to be taken. Such measures may include, but not be limited to, relocating panels, mining without interruption, exposing gas lines, supporting foundations of structures, and insuring that any damage is repaired.

(3) Specify anticipated effects of planned subsidence.

(e) Where room and pillar mining with less than 80% coal extraction is proposed, the following information shall be made a part of the plan:

(1) On the development map, show all first mining and areas of planned pillar extraction.

(2) Describe anticipated secondary mining plans including percent extraction.

(3) Under all structures and renewable resource lands, demonstrate what methods will be used to protect that structure or lands (i. e., leaving solid coal or limited extraction). Under structures and perennial streams, the area addressed must extend to the angle of critical deformation, but not less than 15° unless otherwise approved. If mining is planned under or adjacent to a structure or perennial stream (for structures this need not be addressed when the applicant demonstrates the right to subside), it must be demonstrated to the extent technologically and economically feasible that the pillar design will support the overburden. If it is not technologically and economically feasible, a detailed explanation must be included.

3.13 Underground Mine Abandonment Plan. Each application for an underground coal mine operation shall contain an abandonment plan which complies with the requirements of Federal Mine Health Administration regulations at 30 CFR 75.1711. The abandonment plan shall also contain the following specifications:

(a) The width of outcrop barriers;

(b) The type and number of permanent seals proposed, their design details, and the proposed materials to be used for construction;

(c) The maximum head of water expected on the outcrop barriers and mine seals; and

(d) The type and design details of seals for boreholes.

3.14 Removal of Abandoned Coal Refuse Disposal Piles.

(a) In accordance with subsection (d) Section 28 of the Act, the Director may, when not in conflict with the purposes and findings of the Act, issue a special permit solely for the removal of existing abandoned coal processing waste piles; provided that, if the average quality of the refuse material meets the minimum BTU value standards to be classified as coal, as set forth in ASTM standard D 388-88, a permit application which meets all applicable requirements of this section shall be required. The criteria for issuing such special permits are as follows:

(1) The removal of the existing abandoned coal processing waste pile will bring about a more desirable land use or;

(2) The removal of the existing abandoned coal processing waste pile will result in greater protection of the safety and welfare of the public; or

(3) The removal of the existing abandoned coal processing waste pile will result in greater protection of the environment.

(b) An application for a special permit for the removal of existing abandoned coal processing waste piles shall be submitted on forms prescribed by the Director containing the following information:

(1) All information required by subsection 3.1 of these regulations;

(2) A public notice containing the same information required by paragraph (b) of subsection 3.2 of these regulations excluding sub-paragraph (5). The notice shall be published in a newspaper of general circulation in the county in which the removal operation is located. The notice shall be published once and provide for a thirty (30) day comment period. A

certification of publication will be made a part of the permit application;

(3) A statement in accordance with paragraph (9), subsection (a), Section 9 of the Act and where applicable subsection 3.3 of these regulations;

(4) A project narrative which describes:

(A) Existing site conditions;

(B) How the removal operation will meet the criteria of paragraph (a) of this subsection;

(C) The design life of the operation;

(D) Type and quantity of material to be removed; and

(E) The postmining land use.

(5) A plan for emergency procedures as required in paragraph (e) subsection 22.4 of these regulations.

(6) A description and results of sampling and analysis procedures used to develop a representative assay of the physical and chemical properties of the existing abandoned coal processing material;

(7) A PHC in accordance with paragraph (a) of subsection 3.22 of these regulations except that development of base line water quality data will not be required;

(8) A hydrologic reclamation plan as described in paragraph (f) of subsection 3.22 of these regulations;

(9) A surface water monitoring plan as described in paragraph (g) of subsection 3.22 of these regulations;

(10) A revegetation plan which conforms to the requirements of paragraph (m), subsection 14.16, of these regulations;

(11) A fire control plan which conforms to the requirements of paragraph (m) of subsection 22.5 of these regulations;

(12) A procedure for inspections and certifications which conforms to the applicable requirements of subsection 22.6 of these regulations;

(13) A map of the scale, size and color code as described in paragraphs (a), (b), and (c) of subsection 3.4 of these regulations which contains the following information:

(A) All types of information set forth on topographical maps of the United States Geological Survey including all manmade features;

(B) The area of land to be affected by the removal operation, including any coal storage and topsoil borrow and storage areas;

(C) The property boundaries of all surface owners within one hundred (100) feet of any part of the proposed permit area;

(D) The location and direction of flow of the drainage patterns both within and outside the proposed permit area and the outline of each component drainage area;

(E) The location of all drainage and sediment control structures and monitoring sites for water sampling and analysis;

(F) A location map; and

(G) A signed, notarized, and dated statement as follows: "The information contained herein is true and correct to the best of my knowledge and belief."

(14) Cross sections plans and specifications prepared by or under the direction of a registered professional engineer as follows:

(A) Cross sections and profile of the existing surface configuration and the final surface configuration of all areas to be affected by the removal operation;

(B) Cross sections, plans, and specifications for all drainage and sediment control structures;

(C) Cross sections, profiles and design specifications for any roads to be utilized for the removal operation;

(D) Specifications for the removal of the existing coal processing refuse by either excavating the material in successive horizontal lifts with a maximum elevation differential between working benches of twelve (12) feet or excavation down the face of the existing slope from top to toe, provided that the slope is no steeper than 2H:1V, provided further that no material will be removed from the toe in advance of upper level material in a manner which reduces stability of the working face; and

(E) A stability analysis of the existing abandoned coal processing waste pile.

(15) Where the existing coal processing refuse pile will only be partially removed, the permit application will contain additional information and specifications which include:

(A) Design and configuration of the final graded area which reflects that no water will be impounded above the remaining material and that final graded slopes are no steeper than 2H:1V;

(B) Plans, cross sections, and design specifications for a diversion ditch above and around the remaining material which will carry the peak runoff from a 100 year 24 hour precipitation event; provided that upon an effective demonstration by the operator that such diversion is not required to provide protection to the environment or the health, welfare and safety of the public, the Director may approve a lesser design;

(C) Procedure for performing stability analysis of the remaining material to assure mass stability; and

(D) A plan for long range prevention of combustion of the remaining material.

(E) Baseline water quality data.

(16) Where the existing coal processing refuse pile does impound water, or has the capacity to impound water, the permit application will contain the additional plans, design data, and specifications:

(A) A plan for drawing down the water behind the impoundment to a level and in a manner which assures the protection of the environment and the safety of operation personnel and the public prior to any removal operations;

(B) Plans, design data and specifications for the construction of a spillway which will pass the peak runoff from a 100 year, 24 hour precipitation event and how such structure will be functionally maintained throughout the life of the operation;

(C) A description of how the existing coal processing material will be removed maintaining a five (5) foot elevation differential between the breach invert elevation of the excavated embankment and the elevation of any slurry which may be impounded behind the embankment; and

(D) Provide plans, design data, and specifications for the regrading of any remaining refuse material such that the regraded area blends into the surrounding drainage pattern and will not impound water.

(17) A reclamation plan which conforms to the requirements of paragraphs (d), (e), (f), (h), (i), and (j) of subsection 3.6 of these regulations.

(c) Where a coal reprocessing operation involves disposal of coal processing refuse generated either on site or off site, the design, construction, and maintenance of the new structure will be subject to all the requirements of Section 22 of these regulations and will be subject to all the permitting requirements of the Act and these regulations.

(d) A bond and insurance in accordance with Section 11 of the Act and Section 11 of these regulations shall be provided by the applicant prior to the issuance of a special permit.

(e) Removal operations permitted under this subsection shall be subject to paragraph (1), subsection 22.5 of these regulations and all other applicable performance standards of the Act and these regulations.

3.15 Approved Persons.

(a) Any person approved by the Director, unless otherwise provided in the Act and these regulations, may prepare, sign, or certify permit applications, maps, plans, and design specifications or other similar materials necessary to complete an application; provided, however, that for purposes of Sections 9(a)(13) and 12(b)(10) of the Act an approved person shall be a registered professional engineer or licensed land surveyor.

(b) The Director's approval shall be in writing and shall be granted on the basis of the following:

(1) A resume of the persons prior experience and training relating to the preparation of permit application materials and certification of associated facilities; provided, that registered professional engineers, registered mining or civil engineers and licensed land surveyors currently registered or licensed in the State of West Virginia shall submit a copy of their registration or license in addition to a resume; and

(2) Any person seeking an approval must demonstrate that he possesses adequate knowledge of the Act and rules and regulations and possess such other skills and qualifications as may be necessary to prepare an application and certify facilities by successfully passing an examination administered by the Director. Examinations will be given upon request.

(c) All technical data in the application shall bear the name of the person collecting and analyzing the data, dates of collection and analysis, and description of the methodology used to collect and analyze the data. Any referenced materials not included in the application shall be made available to the Director upon request.

(d) Technical analysis shall be planned by, or under the direction of, a professional person qualified in the subject to be analyzed.

3.16 Fish and Wildlife Resources Information.

(a) Each application shall include fish and wildlife resource information for the permit area and adjacent area.

(1) The scope and level of detail for such information shall be determined by the Director in consultation with State and Federal agencies with responsibilities for fish and wildlife resources and shall be sufficient to develop the protection and enhancement plan required under paragraph (b) of this subsection.

(2) The Director shall provide for coordination of review of surface mining and reclamation permits where such coordination is appropriate pursuant to the Fish and Wildlife Coordination Act (16 U.S.C. 661 et seq.).

(3) Site-specific resource information necessary to address the respective species or habitats shall be required when the permit area or adjacent area is likely to include:

(A) Listed or proposed endangered or threatened species of plants or animals or their critical habitats listed by

the Secretary under the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et seq.), or those species or habitats protected by similar state statutes;

(B) Habitats of unusually high value for fish and wildlife such as important streams, wetlands, riparian areas, cliffs supporting raptors, areas offering special shelter or protection, migration routes, or reproduction and wintering areas; or

(C) Other species or habitats identified through agency consultation as requiring special protection under State or Federal Law to include the Migratory Bird Treaty Act of 1918 (16 U.S.C. 703 et seq. and the Bald Eagle Protection Act (16 U.S.C. 668 et seq.).

(b) Each application shall include a description of how, to the extent possible using the best technology currently available, the operator will minimize disturbances and adverse impacts on fish and wildlife and related environmental values, including compliance with the Endangered Species Act, during the surface mining and reclamation operations and how enhancement of these resources will be achieved where practicable. This description shall:

(1) Be consistent with the requirements of Section 8 of these regulations;

(2) Apply, at a minimum, to species and habitats identified under paragraph (a) of this subsection; and

(3) Include:

(A) Protective measures that will be used during the active mining phase of operation. Such measures may include the establishment of buffer zones, the selective location and special design of haul roads and power lines, and the monitoring of surface water quality and quantity; and

(B) Enhancement measures that will be used during the reclamation and postmining phase of operation to develop aquatic and terrestrial habitat. Such measures may include restoration of streams and other wetlands, retention of ponds and impoundments, establishment of vegetation for wildlife food and cover, and the replacement of perches and nest boxes. Where the plan does not include enhancement measures, a statement shall be given explaining why enhancement is not practicable.

(c) Upon request, the Director shall provide the resource information required under paragraph (a) of this subsection and the protection and enhancement plan required under paragraph (b) of this subsection to the appropriate State and/or Federal Fish and Wildlife agencies for their review. This information shall be provided within ten (10) days of receipt of the request.

3.17 Parks and Historic Lands.

(a) Each permit application shall contain a description of the nature of cultural, historic and archaeological resources listed or eligible for listing on the National Register of Historic Places and known archaeological sites within the proposed permit and adjacent areas. The description shall be based on all available information, including, but not limited to, information from the State Historic Preservation Officer and from local archaeological, historical, and cultural preservation agencies.

(b) The Director may require the applicant to identify and evaluate important historic and archaeological resources within the proposed permit and adjacent areas that may be eligible for listing on the National Register of Historic Places, through the collection of additional information by conducting field investigations or other appropriate analysis.

(c) Adverse impacts to any publicly owned park and any place listed on the National Register of Historic Places shall be prohibited unless the permit applicant has valid existing rights or unless joint agency approval is obtained in accordance with subsection 3.19 of this section. In either case all adverse impacts must be minimized.

(d) The Director may require the applicant to protect historic or archaeological properties listed on or eligible for listing on the National Register of Historic Places through appropriate mitigation and treatment measures. Appropriate mitigation and treatment measures may be required to be taken after permit issuance provided that the required measures are completed before the properties are affected by any mining operation.

3.18 Endangered Species. When the proposed mining operation will affect threatened or endangered species of plants or animals or their critical habitats, the application shall describe control measures, management techniques, and monitoring methods to be employed in order to protect or enhance such species and habitats. Endangered or threatened species are as listed by the

Secretary of Interior under the Endangered Species Act of 1973 (16 U.S.C. 1521 et seq.).

3.19 Effect on Historic Places and Archaeological Sites. Where the proposed surface coal mining operation will adversely affect any publicly owned park, any place listed on the national Register of Historic Places or archaeological sites, the Director shall transmit to the Federal, State or local agencies with jurisdiction over the park or historic place the applicable parts of the permit application, together with a request for the agency's approval or disapproval of the operation. Consideration and coordination of the permit review shall be in accordance with the National Historic Preservation Act of 1966 (16 U.S.C. 470 et seq.) and the Archaeological Resource Protection Act of 1979 (16 U.S.C. 470 et seq.). The agency shall have thirty (30) days from receipt of the request within which to respond unless an additional thirty (30) day extension is requested and granted by the Director. A permit for such operation shall have joint approval of all affected agencies. Failure of the agency to respond to the Director's request within the prescribed time period shall constitute approval.

3.20 Prime Farmlands. Prior to issuing a permit which involves prime farmland, the Director shall consult with the U.S. Soil Conservation Service. On the basis of this consultation and other information available to him, the Director shall make a written finding that:

(a) The approved postmining land use will be cropland;

(b) The permit incorporates the prime farmland reconstruction plan as a permit condition;

(c) The applicant has the technological capability to restore the land within a reasonable time period to conditions capable of producing levels of yield equivalent to or higher than those of non-mined prime farmland in the surrounding area under equivalent levels of management; and

(d) Mining will be conducted in accordance with prime farmland performance standards and all other applicable environmental protection performance standards of the Act and these regulations.

3.21 Prohibitions and Limitations on Mining. Upon receipt of a complete application for a surface mining permit, the Director shall review the application to determine whether the surface coal mining operation is limited or prohibited under

Section 22 of the Act including any study rivers or corridors thereof as established in any official guidelines issued pursuant to the Wild and Scenic Rivers Act.

(a) If the Director is unable to determine whether the proposed operation is located within the boundaries of any of the lands described in paragraph (1), subsection (d), Section 22 of the Act, or closer than the limits provided in paragraph (4), subsection (d), Section 22 of the Act, the Director shall transmit a copy of the relevant portions of the permit application to the appropriate Federal, State or local government agency for a determination or clarification of the relevant boundaries or distances. The agency shall make such determinations within thirty (30) days of receipt of the Director's request. The Director may extend the response period by thirty (30) days upon written request.

(b) When the Director receives any request for determination of valid existing rights on lands within the area of jurisdiction of the National Park Service or the U. S. Fish and Wildlife Service, a notification shall be made to the appropriate agency, and they shall have thirty (30) days in which to respond. The Director may, upon written request, extend the response period by an additional thirty (30) days.

(c) Where the proposed operation would include Federal lands within the boundaries of any national forest when the applicant seeks a determination that mining is permissible under paragraph (5), subsection (d), Section 22 of the Act, the applicant shall submit a permit application to the field office of the Federal Office of Surface Mine Reclamation and Enforcement with a request that such determinations be made.

3.22 Hydrologic Information.

(a) PHC. Each permit application shall, in addition to the requirements of the Act, contain a statement describing the probable hydrologic consequences (PHC) of the proposed mining operation, with respect to the hydrologic balance, on both the permit area and adjacent areas. The statement shall be based on base line information developed from sampling and analysis of surface and groundwater at monitoring sites established both on the permit area and adjacent areas. Sampling and analysis shall be performed in accordance with methods approved by the Office of Surface Mining Reclamation and Enforcement. The longitude, latitude and elevation shall be given for each of the monitoring sites. Mathematical modeling techniques may be used to aid in the development of the required information. The PHC

determination shall include findings on: whether adverse impacts may occur to the hydrologic balance; whether acid-forming or toxic-forming materials are present that could result in the contamination of surface or ground-water, and whether the proposed operation may proximately result in contamination, diminution or interruption of an underground or surface source of water within the proposed permit or adjacent areas which is used for domestic, agricultural, industrial, or other legitimate purpose; and what impact the proposed operation will have on:

(1) Sediment yield from the disturbed area;

(2) Acidity, total suspended and dissolved solids, and other important water quality parameters;

(3) Flooding or stream flow alteration;

(4) Ground-water and surface-water availability; and

(5) Other characteristics as required by the Director.

(b) Base Line Ground Water Information. Each application for a permit shall contain:

(1) The location, ownership, and use (if any) of known existing wells, springs, and other groundwater resources including discharges from other active or abandoned mines on the proposed permit area and adjacent areas in sufficient numbers to allow the applicant to make a reasonable approximation of the base line groundwater conditions and use;

(2) Water quality analysis including, at a minimum, total dissolved solids, alkalinity, acidity, sulfates, specific conductance, pH, total iron and total manganese. Correlation data from other monitoring sites within the general area of the proposed mining operations may be accepted; provided, that a limited number of validation samples from the permit area may be required; provided further, that in areas where prior mining experience has shown acid production to be a possibility, or in acid producing seams in areas with no prior mining history, site specific water sampling and analysis data shall be required;

(3) For significant aquifers, groundwater quantity descriptions including discharge rates or usage and depth to water under seasonal conditions in each water-bearing stratum above the coal seam and each potentially impacted stratum below the coal seam. Where deemed appropriate and feasible by the

Director the operator may calculate water usage for water status discharge determinations; and

(4) If the determination of the probable hydrologic consequences (PHC) indicates that a currently used or significant groundwater resources is likely to be contaminated, diminished, or interrupted, additional information shall be provided as necessary to fully evaluate such probable hydrologic consequences as water availability and suitability for both the premining and postmining land use in order to plan remedial and reclamation activities such as alternative water sources.

(c) Base Line Surface Water Information. Each application for a permit shall contain:

(1) The name, location, ownership, and description of all surface water bodies on the permit area and adjacent areas;

(2) Water quality descriptions including information on total suspended solids, total dissolved solids, specific conductance, pH, acidity, alkalinity, sulfates, total iron and total manganese sufficient to demonstrate seasonal variations; provided, that correlation data from other monitoring which does not include one or more of the above parameters may be accepted; provided further, that a limited number of validation samples may be required. In areas where prior mining experience has shown acid production to be a possibility, or in acid producing seams in areas with no prior mining history, site specific water sampling and analysis data shall be required;

(3) Water quantity descriptions including information on seasonal flow rates, variation, and usage; and

(4) If the determination of the probable hydrologic consequences (PHC) indicates that a currently used or significant surface water resource (including all lightly buffered streams) is likely to be contaminated, diminished, or interrupted, additional information shall be provided on the flood flows, base flows, and other characteristics or information as necessary to fully evaluate such probable hydrologic consequences as water availability and suitability for both the premining and postmining land use in order to plan remedial and reclamation activities such as alternative water sources.

(d) The applicant shall submit with the application all available data and analysis described in paragraphs (b) and (c) of this subsection for use in preparing the cumulative hydrologic impact assessment (CHIA).

(e) The Director shall perform a separate CHIA for the cumulative impact area of each permit application. This evaluation shall be sufficient to determine whether the proposed operation has been designed to prevent material damage to the hydrologic balance outside the permit area.

(f) Each permit application shall contain a hydrologic reclamation plan. The plan shall be specific to the local hydrologic conditions. It shall contain in the form of maps and descriptions the steps to be taken during mining and reclamation through bond release to minimize disturbances to the hydrologic balance within the permit and adjacent areas; to prevent material damage outside the permit area; to meet applicable Federal and State water quality laws and regulations; and to protect the rights of present water users. The plan shall include the measures to be taken to:

(1) Avoid acid or toxic drainage;

(2) Prevent, to the extent possible using the best technology currently available, additional contributions of suspended solids to streamflow;

(3) Provide water treatment facilities when needed;

(4) Control drainage;

(5) Restore, protect, or replace water supply of present water users in accordance with Section 24 of the Act. The plan shall specifically address the potential adverse hydrologic consequences identified in the PHC determination and shall include preventive and remedial measures; and

(6) Restore approximate premining recharge capacity provided that underground mining operations are exempt from this requirement.

(g) Each application for a permit shall contain a surface water monitoring plans based on the PHC determination and base line hydrologic and geologic information. These plans shall identify monitoring site locations, quantity and quality parameters, sampling frequency, and describe how the data will be used to determine the impact of the operation on the hydrologic balance both on the permit area and adjacent areas. Monitoring sites shall be located in the surface water bodies such as streams, lakes, and impoundments that are potentially impacted or into which water will be discharged at both upstream and downstream locations from the discharge. Monitoring parameters

shall include but are not limited to total dissolved solids or specific conductance corrected at 25°C, total suspended solids, flow measurements, pH, acidity, alkalinity, total iron and total manganese. The selection of these parameters must be based on current and approved postmining land uses and all hydrologic balance protection objectives.

(h) Each application for a permit shall contain a ground water monitoring plan for all significant groundwater resources provided that monitoring shall not be required if the applicant can demonstrate that the aquifer is not one which significantly ensures the hydrologic balance within the cumulative impact area as provided in paragraph (c), subsection 14.7 of these regulations. The decision of need will be based on the PHC determination and base line hydrologic and geologic information gathered both on and off the mine site. These plans shall identify monitoring site locations (latitude, longitude, and ground level elevations), quantity and quality parameters to be monitored, sampling frequency and duration, and describe how the data will be used to determine the impact of the operation on the hydrologic balance both on and off the mine site. Monitoring parameters shall include, but are not limited to, total dissolved solids or specific conductance corrected at 25°C, pH, acidity, alkalinity, total iron, total manganese, and water levels or discharge rates. The selection of these parameters must be based on current and approved postmining land uses and all hydrologic balance protection objectives.

(i) If the PHC indicates that adverse impact may occur to the hydrologic balance or that acid forming or toxic forming material is present that may result in contamination of surface or groundwater supplies, then additional information supplemental to that required in paragraphs (b) and (c) of this subsection shall be provided to evaluate such probable hydrologic consequences and to plan remedial and reclamation activities.

3.23 Geology. Each application for a permit shall contain the following geologic and related information:

(a) Geologic cross sections, maps or plans of the proposed permit area and adjacent areas, prepared by or under the direction of and certified by a person approved by the Director. When required by the Director, test borings or core samplings shall be analyzed to determine the following information:

(1) The locations (latitude and longitude) and elevations of all bore holes;

(2) The nature and depth of the various strata or overburden including geologic formation names and/or geologic members;

(3) The elevation location of subsurface water, if encountered, and its quality;

(4) The nature and thickness of any coal or rider seams above the seam to be mined;

(5) The nature of the stratum immediately beneath the coal seam to be mined;

(6) All mineral crop lines and the strike and dip of the coal to be mined, within the area of land to be affected;

(7) Existing or previous surface mining limits; and

(8) The location and extent of known workings of any underground mines, including mine openings to the surface.

(b) Information concerning the areal and structural geology of both the proposed permit and adjacent areas, down to the deeper of either the stratum immediately below the lowest coal seam to be mined or any aquifer which may be adversely impacted below the lowest coal seam to be mined. Areal geology may include information such as mapped outcrop locations shown on a 7 1/2 minute United State Geological Survey (U.S.G.S.) topographic map, aerial photographs, and published geologic reports for the area of concern. Structural geology may include mapped lineament traces from aerial photography or topographic maps and any published structural geologic reports for the area of concern;

(c) Areal and vertical distribution of aquifers with seasonal differences in head and the name(s) of the stratum (or strata) in which the water is found;

(d) Location and depth of all oil and gas wells within the proposed permit area for both surface and underground mines;

(e) For underground mining operations, indicate whether or not there will be a gravity discharge; and

(f) A statement of the result of test borings or core samples from the permit and adjacent areas including:

(1) The results of test borings including the lithologic logs of the drill holes displaying the physical properties and thickness of each stratum encountered which the applicant has made at the area to be covered by the permit, or other equivalent information and data in a form satisfactory to the Director including the structural geology, thickness of the coal seam to be mined, location of subsurface water, if encountered, and an analysis of the chemical and physical properties, including but not limited to the sulfur content of any coal seam, the chemical analysis of potentially acid or toxic-forming sections of the overburden, and the chemical analysis of the stratum lying immediately underneath the coal to be mined: Provided, that information which pertains only to the analysis of the chemical and physical properties of the coal, except information regarding such mineral or elemental contents which are potentially toxic in the environment, shall be kept confidential and not a matter of public record;

(2) Premining overburden sampling and analysis or previous experience and correlation data, shall be made a part of each permit application for all acid-producing seams. Overburden sampling and analysis is to be performed in accordance with standard procedures set forth in Environmental Protection Agency Manual No. 600/2-78-054 (Field and Laboratory Methods Applicable to Overburdens and Minesoils) or other methods approved by the Director;

(3) For standard room and pillar mining operations, the thickness and engineering properties of clays or soft rock such as clay shale, if any, in the stratum immediately above and below each coal seam to be mined;

(4) Cross sectional or areal maps illustrating faults, crop lines, dip/strike, synclines, anticlines and other known geologic structural features which have a bearing on the extraction of the coal and/or the hydrologic regime. The maps shall be accompanied by a detailed description of the illustrated data including a brief description of the degree of fracturing and weathering noted during the exploration drilling if it is believed to have a potential influence on the extraction of the coal and/or the hydrologic regime;

(5) An explanation of the anticipated potential impacts of the proposed mining operation on the hydrology and geology of the area; and

(6) An applicant may be granted a waiver for the requirements of parts (1) and (3) of this paragraph only after

the Director finds in writing that the collection and analysis of such data is unnecessary because other equivalent information exists and is available to the Director; provided, that in areas where mining history has shown acid production to be a possibility, or in acid producing seams in areas with no prior mining history, site specific overburden sampling and analysis data shall be required.

3.24 Protection of Adjacent Operations. Surface mining activities shall be designed to protect disturbed surface areas, including spoil disposal sites, so as not to endanger any present or future operations of either surface or underground mining activities.

3.25 Transfer, Assignment or Sale of Permit Rights and Obtaining Approval; Sale, Conveyance or Assumption of Control or Ownership of an Operation.

(a) The Director may grant written approval of the transfer, assignment or sale of a permit under the following terms and conditions:

(1) The applicant shall affirmatively demonstrate to the Director that a bond in the full amount of that required for the permit will be kept in full force and effect before, during, and after the transfer, assignment, or sale.

(2) The application for transfer, assignment, or sale, shall set forth on forms prescribed by the Director, the information required in paragraphs (1) through (6), subsection (a), Section 9; and paragraph (9) subsection (a) of Section 9, subsections (d) and (f) of Section 9; paragraph (10), subsection (a) of Section 10; and paragraph (5) subsection (b) of Section 18 of the Act and paragraphs (a), (b), (c), (d), (i), (j), and (k) of subsection 3.1 of these regulations.

(3) The applicant for transfer, assignment or sale of a permit shall, upon filing of the application with the Director, give notice of the filing in a newspaper of general circulation in the locality of the operation. The notice shall be in the form of a legal advertisement containing information as set forth on forms provided by the Director, the name and address of the original permittee and the permit number and shall provide for a thirty (30) day comment period. Any person whose interests are or may be adversely affected, may submit written comments to the Director within thirty (30) days of the date of publication.

(4) Approval of the application for transfer, assignment, or sale of a permit may be granted upon a written finding by the Director that the applicant is eligible to receive a permit in accordance with paragraphs (b), (c) and (d)(7) of subsection 3.32 of these regulations, has submitted a performance bond or other guarantee or will be covered by the bond of the original permittee, and will conduct mining operations in accordance with the purposes and intent of the Act, these rules and regulations, and the terms and conditions of the permit. Such findings will be based on information set forth in the application for transfer, assignment, or sale and any other information made available to the Director. Such approval may be granted in advance of the close of the public comment period Provided; That where information is made available to the Director as a result of public comment that would preclude approval, such approval shall be immediately withdrawn.

(5) The Director shall notify the permittee, the successor, all commentors, and the Charleston field office of the Office of Surface Mining Reclamation and Enforcement of his findings.

(6) The successor shall immediately notify the Director upon consummation of the transfer, assignment, or sale.

(7) Each application for a transfer, assignment or sale of a permit shall contain a sworn statement as follows: "The information contained in this application is true and correct to the best of my knowledge and belief." Such statement shall be signed by an accountable official of the applicant and shall be notarized.

(b) Any person who, through whatever means, assumes ownership or control directly or indirectly of a surface mining and reclamation operation shall become responsible for the correction of all outstanding unabated violations. The payment of all delinquent civil penalties and unpaid reclamation fees for the operation remain the responsibility of the prior permittee, unless it is determined by the Director pursuant to subsection 2.84 of these regulations that the person assuming control owned or controlled the operation at the time such penalties or fees were incurred.

(c) A permittee who wishes to assign the mining operation through an agreement, contract, job contract, etc., to another person, but retain the permit must:

(1) request prior written approval of such assignment on forms prescribed by the Director. Under this arrangement the permittee remains subject to all provisions of the Act, these rules and regulations, and the terms and conditions of the permit;

(2) Advertise the application pursuant to subparagraph (3), paragraph (a) of this subsection; and

(3) Provide, with respect to the assignee, the ownership and control information required by paragraphs (a), (b), (c), (d), (i), (j), and (k) of subsection 3.1 of these regulations.

(d) Each assignee who will function as an operator pursuant to the provisions of paragraph (c) of this subsection, shall be subject to the eligibility requirements of paragraphs (c) and (d) of subsection 3.32 of these regulations.

(e) The sale or other conveyance of a surface coal mining and reclamation operation which has outstanding violation(s), outstanding civil penalties, or reclamation fees, or the sale or other conveyance of any interest in any entity with outstanding violations, penalties, or fees, or the sale or conveyance of an entity which owns or controls an entity, or is owned or controlled by an entity which owns or controls a surface coal mining and reclamation operation with an outstanding violation, penalties or fees shall not in any way affect the application of the permit block sanction set forth in these regulations.

3.26 Ownership and Control Changes.

(a) All changes including name changes, replacements and additions to the ownership and control data relating to a permittee or assignee who will function as an operator pursuant to the provisions of paragraph (c) of subsection 3.25 of this rule shall be reported to the Director. In the case of immediate owners and controllers of the permittee or the operator and/or name change, the change must be reported within thirty (30) days of the change. In all other cases, the change must be reported within one hundred twenty (120) days of the change. The Director will approve the appropriate permit modifications in the following situations:

(1) If the notification is made within the prescribed periods;

(2) The notification is made on forms prescribed for this purpose;

(3) The change is not a Transfer, Assignment, or Sale of Rights as defined in subsection 2.128 of these rules;

(4) The information required by paragraphs (c), (d), (i), (j), and (k) of subsection 3.1 of these rules is supplied relating to all newly identified owners and controllers;

(5) Any newly-identified owner or controller is not prohibited from being issued a surface coal mining and reclamation permit. In the event that a newly-identified owner or controller is prohibited from being issued a surface coal mining and reclamation permit, the Director shall, notwithstanding the fact that the person became an owner or controller subsequent to the issuance of any affected permit, declare all affected permits to be improvidently issued and take action pursuant to paragraphs (c), (d) and (e), subsection 3.34 of this Section; and

(6) In the event that a permittee or operator has incurred no changes in its ownership and control information and therefore has not been obligated to file a report within any consecutive twelve-month period, that permittee or operator is required to notify the Director in writing that no changes to the information required by paragraphs (b), (c), (d), and (i) of subsection 3.1 of this rule have occurred.

(b) The applicant has the burden of proving that any change in ownership or control is not a Transfer, Assignment, or Sale of Rights as defined in subsection 2.128 of these rules.

(c) The change may require public notice.

3.27 Permit Renewals and Permit Extensions.

All active surface mining operations shall be subject to the renewal requirements and provisions for issuance of a renewal discussed in Section 19 of the Act: *Provided,* That the Director may waive the requirements for renewal if the permittee certifies in writing that all coal extraction is completed, that all backfilling and regrading will be completed within sixty (60) days prior to the expiration date of the permit, and that an application for Phase I bond release will be filed prior to the expiration date of the permit. Failure of the permittee to complete backfilling and regrading within sixty (60) days prior to the expiration date of the permit will nullify the waiver.

Those operations which have been granted inactive status in accordance with subsection 14.11 of this rule shall also be subject to the renewal requirements of Section 19 of the Act.

Applications for renewal shall be filed on forms provided by the Director and shall contain at a minimum the following information:

(1) The name and address of the permittee, location of the permit area including the county, the magisterial district, the nearest post office and the permit number;

(2) A statement that the terms and conditions of the preplan are being satisfactorily met;

(3) A statement that the operation is in compliance with the applicable environmental protection standards of the Act and these rules and regulations;

(4) A statement that the bond and insurance policy for the operation will continue in effect;

(5) A progress map of an approved size and scale as the proposal maps for all operations except those operations which have obtained a bond release or those operations with no disturbance and which have not started into operation;

(6) Each application for a permit renewal shall contain a sworn statement as follows: "The information contained in this application is true and correct to the best of my knowledge and belief." Such statement shall be signed by an accountable official of the applicant and shall be notarized; and

(7) A copy of the proposed newspaper advertisement in accordance with subsection (a) Section 20 of the Act and subsection 3.2 of these regulations.

(b) Each application for renewal of a permit shall be administratively complete prior to public notice. The Director shall notify the appropriate agencies of the application for renewal as required in subsection (a) of Section 20 of the Act.

(c) Any person having an interest which is or may be adversely affected by the decision on the application, or an officer or a head of a Federal, State, or local government agency, may request in writing that the Director hold an informal conference on the application for a permit renewal.

(1) The request shall:

(A) Briefly summarize the issues to be raised by the requestor at the conference;

(B) State whether the requestor desires to have the conference conducted in the locality of the proposed operation; and

(C) Be filed with the Director no later than thirty (30) days after the last publication of the newspaper advertisement required under subparagraph (7) of paragraph (a) of this subsection.

(2) Except as provided in paragraph 3 of this subsection, if any informal conference is requested the Director shall hold an informal conference within a reasonable time following the receipt of the request. The informal conference shall be conducted as follows:

(A) If requested, it shall be held in the locality of the proposed surface mining and reclamation operation.

(B) The date, time, and location of the informal conference shall be sent to the applicant and other parties to the conference and advertised by the Director in a newspaper of general circulation in the locality of the proposed surface mining and reclamation operation at least two (2) weeks before the scheduled conference.

(C) If requested in writing by a conference requestor at a reasonable time before the conference, the Director may arrange with the applicant to grant parties to the conference access to the proposed permit area and, to the extent that the applicant has the right to grant access to it, to the adjacent area prior to the established date of the conference for the purpose of gathering information relevant to the conference.

(D) The conference shall be conducted by the Director, who may accept oral or written statements and any other relevant information from any party to the conference. An electronic or stenographic record shall be made of the conference, unless waived by all the parties. The record shall be maintained and shall be accessible to the parties of the conference until final release of the applicant's bond or other equivalent guarantee.

(3) If all parties requesting the informal conference withdraw their request before the conference is held, the informal conference may be cancelled.

(d) A time extension of sixty (60) days may be granted by the Director for permit renewal which has been submitted but is logistically impractical to process before the expiration date.

(e) Extensions of time for a permit as provided in subsection 3, Section 8 of the Act shall be specifically set forth in a written approval and made part of the permit. Such extension shall be made public by the Director.

(f) Extensions of the initial permit term in excess of five (5) years as provided in subsection (1) of Section 8 of the Act may be granted upon written request by the applicant. Such request shall be accompanied by a written verification. Any permit extension which is approved under this paragraph shall be reviewed by the Director at its mid-term or every five (5) years, whichever is more frequent.

3.28 Permit Revisions.

(a) Each request for a permit revision will be submitted on forms prescribed by the Director which shall be signed by the accountable official of the applicant and shall be notarized.

(b) Each application for a permit revision shall be subject to review and approval by the Director. Each application shall be reviewed by the Director to determine if an updated probable hydrologic consequences determination or cumulative hydrologic impact assessment is required. The Director shall make a determination, on the basis of information provided in the permit revision application, whether or not the revision is of a significant or non-significant nature. The following criteria shall provide guidance for making such a determination.

(1) Where the permit revision constitutes a significant departure from the terms and conditions of the existing permit which may result in a significant impact in any of the following areas, it shall be deemed to be a significant revision and be subject to the public notice requirements of paragraphs (a) and (b) of subsection 3.2 of these regulations:

(A) The health, safety, or welfare of the public;

(B) The hydrologic balance in the area of operation;

(C) The postmining land use;

(D) Areas prohibited from mining pursuant to the provisions of subsection (d) Section 22 of the Act; and

(E) An individual's legal right to receive notice, as prescribed by the provisions of these rules and regulations.

(2) Where the permit revision constitutes only an insignificant departure from the terms and conditions of the approved permit, it shall be deemed to be a non-significant revision requiring no public notice.

(c) The Director may require reasonable revisions to surface mining permits or prospecting approvals where such revisions are necessary to assure compliance with the Act and these regulations; provided, that the Director shall notify the permittee that such revisions are necessary and shall provide a reasonable time for compliance.

3.29 Incidental Boundary Revisions (IBRs).

(a) Incidental Boundary Revisions (IBRs) shall be limited to minor shifts or extensions of the permit boundary into non-coal areas or areas where any coal extraction is incidental to or of only secondary consideration to the intended purpose of the IBR. IBRs shall also include the deletion of bonded acreage which is overbonded by another valid permit and for which full liability is assumed in writing by the successive permittee. Incidental Boundary Revisions shall not be granted for any prospecting operations, or to abate a violation where encroachment beyond the permit boundary is involved, unless an equal amount of acreage covered under the IBR for encroachment is deleted from the permitted area and transferred to the encroachment area.

(b) General. Applications for IBRs shall be as follows:

(1) The application shall be filed on forms provided by the Director.

(2) For purposes of surface mining operations, the maximum total acreage to be permitted under one or more IBR(s) shall not exceed twenty (20) percent of the original permitted acreage or a maximum of fifty (50) acres, whichever is less, throughout the life of the permit. Acreage limitation for IBR(s)

on underground mining operations shall be limited to one hundred fifty (150) percent of the original permitted acreage or a maximum of fifty (50) acres, whichever is less, throughout the life of the permit; Provided, That the Director may grant a waiver specifying larger acre limits where the applicant demonstrates that the nature and complexity of the operation clearly requires more than fifty (50) acres for additional facilities to include but not be limited to site development, air shafts, fan ways, vent holes, roads, staging areas, etc.

(3) The application shall be accompanied by adequate bond.

(4) The application shall be accompanied by a map showing the areas covered by the IBR.

(5) The application shall be accompanied by a reclamation plan for the area of the IBR which is consistent with the existing reclamation plan.

(6) The application shall be subject to review and approval by the Director.

(c) An IBR may not be implemented by any operator until written approval of the Director has been granted.

(d) The Director shall make the following findings prior to approval of an IBR:

(A) The IBR does not constitute a change in the postmining land use.

(B) The IBR will only involve lands for which the approved PHC is applicable.

(C) The IBR does not constitute a change in the method of mining.

(D) The IBR will not result in adverse environmental impacts of a larger scope or different nature from those described in the approved permit.

(E) The IBR will facilitate the orderly and continuous conduct of mining and reclamation operations.

(F) Except for underground operations, an area permitted under an IBR must be contiguous to the original permitted area.

(e) Upon review of an application for an Incidental Boundary Revision, the Director may require an advertisement to be published which provides for a ten (10) day public comment period. The advertisement shall contain such information as set forth on a form prescribed by the Director.

3.30 Variance.

(a) Approximate Original Contour. All permits approved with variances from approximate original contour shall be reviewed by the Director two and one-half (2 1/2) years after issuance to determine whether or not the operation is proceeding in accordance with the terms of the variance.

(b) Contemporaneous Reclamation. The Director may grant a request for variance from contemporaneous reclamation in accordance with paragraph (16), subsection (b), Section 13 of the Act, if such request is made a part of the surface mining permit application or a subsequent revision to a permit, and if the area reserved for the underground mining operation is permitted under a separate permit. If the underground mining operation is not activated within three (3) years of the date of issuance of the permit, the permit shall terminate, unless extended as provided for in subsection (3), Section 8 of the Act. Upon termination of the permit, the mine site shall be reclaimed in accordance with the Act, these regulations, and the reclamation plan approved in the permit.

(c) Any person desiring a variance under paragraph (b) of this subsection shall file with the Director complete applications for both the surface mining activities and underground mining activities which are to be combined. The reclamation and operation plans for these permits shall contain appropriate narratives, maps, and plans which:

(1) Show why the proposed underground mining activities are necessary or desirable to assure maximum practical recovery of the coal;

(2) Show how multiple future disturbances of surface lands or waters will be avoided;

(3) Identify the specific surface areas for which a variance is sought and the sections of the Act or these regulations from which a variance is being sought;

(4) Show how the activities will comply with subsections 3.24 and 14.13 of these regulations;

(5) Show why the variance sought is necessary for the implementation of the proposed underground mining activities;

(6) Provide an assessment of the adverse environmental consequences and damages, if any, that will result if the reclamation of surface mining activities is delayed; and

(7) Show how offsite storage of spoil will be conducted to comply with the requirements of the Act and subsection 14.14 of these regulations.

(d) Issuance of Permit. A permit incorporating a variance granted under paragraph (b) of this subsection may be issued by the Director if it is first determined, in writing, upon the basis of a complete application filed in accordance with this subsection, that:

(1) The applicant has presented, as part of the permit application, specific, feasible plans for the proposed underground mining activities;

(2) The proposed underground mining activities are necessary or desirable to assure maximum practical recovery of the mineral resources and will avoid multiple future disturbances of surface land or waters;

(3) The applicant has satisfactorily demonstrated that the applications for the surface mining activities and underground mining activities conform to the requirements of the Act and these regulations and that all other permits necessary for the underground mining activities have been issued by the appropriate authority;

(4) The surface area of surface mining activities proposed for the variance has been shown by the applicant to be necessary for implementing the proposed underground mining activities;

(5) No substantial adverse environmental damage, either onsite or offsite, will result from the delay in completion of reclamation;

(6) The operations will, insofar as a variance is authorized, be conducted in compliance with the requirements of subsections 3.24 and 14.13 of these regulations;

(7) Provisions for offsite storage of spoil will comply with the requirements of the Act and subsection 14.14 of these regulations;

(8) Liability under the performance bond required to be filed by the applicant will be for the duration of the underground mining activities and until all requirements of the Act and these regulations have been complied with;

(9) The permit for the surface mining activities contains specific conditions:

(A) Delineating the particular surface areas for which a variance is authorized;

(B) Identifying the applicable provisions of the Act and these regulations; and

(C) Providing a detailed schedule for compliance with the provisions of this subsection.

(e) Variances granted under paragraph (b) of this subsection shall be reviewed by the Director no later than three (3) years from the dates of issuance of the permit and any permit renewals.

3.31 Federal, State, County, Municipal, or Other Local Government-Financed Highway or Other Construction Exemption.

(a) To qualify as a Federal, State, County, Municipal or other local government-financed highway or other construction project, the construction must be funded fifty percent (50%) or more by the relevant government agency and once the exemption is granted, the person doing the construction must have on site available for inspection, the following:

(1) Descriptions of the project to include, but not be limited to, the exact location of the limits of all of the area to be affected by the construction; and

(2) Authorization from the agency or agencies providing the funding and, if different, the agency or agencies responsible for the construction, giving permission to proceed and the amount of funding provided as a percent of the total project cost.

(b) The extraction of coal shall be limited to areas within the highway right-of-way or within the boundaries of the area directly affected by other construction activities.

3.32 Findings - Permit Issuance.

(a) The Director shall review an application for a permit, a permit revision, or a permit renewal, written comments and objections submitted relative to the application, records of any informal conference or hearing held relative to the application, and issue a written decision either granting, requiring modification of, or denying the application. If an informal conference is held, the decision shall be made within thirty (30) days of the close of the conference, unless a later time is necessary to provide an opportunity for an appeal. The applicant for a permit or revision of a permit shall have the burden of establishing that his application is in compliance with all the requirements of the Act and these regulations.

(b) Based on the information provided by applicants for surface mining permits pursuant to paragraphs (a), (b), (c), (d), (i), (j), and (k) of subsection 3.1 of these regulations and any other reasonably available information, the Director will compile and maintain an accurate and up-to-date computerized listing of all persons who own or control surface mining operations with outstanding unabated cessation orders, delinquent civil penalties, delinquent reclamation fees, and bond forfeitures of record in the State since May 3, 1978. The listing will include, to the extent reasonably possible, all owners and controllers of the violator(s), described in paragraph (c) of subsection 3.1 of these regulations. The Director will make reasonable efforts to determine the owners and controllers of the permittee, the operator if different from the permittee, and the lessor or mineral owner, where a contract mining situation exists. The procedures and listings described in this paragraph do not apply to notices of violations and are subject to rights of rebuttable presumption. The Director is not obligated to use this information to conduct a systematic review of all existing permits for the purpose of identifying and subsequently suspending those, if any, which may have been improvidently issued.

The Director will systematically prioritize the data collection and data compilation effort required by this paragraph on the ownership and control of violators in the following order: bond forfeitures, outstanding unabated cessation orders, delinquent civil penalties, and delinquent reclamation fees.

To accomplish this objective, the Director will utilize the data in the Federal Applicant Violator System, the Surface Mining Information System, the Mine Safety and Health Administration R.31 Data Base, and the Energy Information Administration Data Base together with such other information as may be readily available. In addition, the Director will make reasonable efforts to identify and include the Mine Safety and Health Administration identification number for sites on the violation listing.

The Director will, using the computerized data bases, review prior to permit issuance all applications received after the effective date of these regulations and make all reasonable efforts to determine at a minimum in each case whether outstanding violations (except for notices of violations), unabated cessation orders, delinquent civil penalties, and/or bond forfeitures exist on the part of the applicant, the owners or controllers of the operator, and the lessor and entities controlled by the lessor, (if the lessor retains rights to the coal after extraction) and, if so, withhold approval of the application until all violations are abated or otherwise resolved in accordance with the requirements of the Act and these regulations.

Where the information in the subject data bases is incomplete and where the information is not available or has not been made available to the Director prior to issuance of the permit, the Director shall not be held in violation of any of the requirements of the Act and these regulations. However, where it is later determined that permits were improvidently issued as a result of inadequate information in the subject data bases or other sources available at the time the permit is issued, the Director shall initiate the procedures set forth in subsection 3.34 of this section.

(c) Based on reasonably available information concerning Federal and State failure-to-abate cessation orders, unabated Federal and State imminent harm cessation orders, delinquent civil penalties, bond forfeitures where violations upon which the forfeitures were based have not been corrected, delinquent abandoned mine reclamation fees, and unabated violations of Federal and State laws, rules and regulations pertaining to air or water environmental protection incurred in connection with any surface mining operation, the Director shall not issue the permit if any surface mining and reclamation operations owned or controlled by either the applicant or by any person who owns or controls the applicant is currently in violation of the Act or any other law, rule or regulation referred to in this paragraph.

In the absence of a failure-to-abate cessation order, the Director may presume that a notice of violation has been or is being corrected to the satisfaction of the agency with jurisdiction over the violation, except where evidence to the contrary is set forth in the permit application, or where the notice of violation is issued for nonpayment of abandoned mine reclamation fees or civil penalties. If a current violation exists, the Director shall require the applicant or person who owns or controls the applicant, before the issuance of the permit, to either:

(1) Submit proof that the current violation has been or is in the process of being corrected to the satisfaction of the agency that has jurisdiction over the violation; or

(2) Establish that the applicant or any person owned or controlled by either the applicant or any person who owns or controls the applicant, has filed and is presently pursuing, in good faith, a direct administrative or judicial appeal to contest the validity of the current violation. If the initial judicial review authority either denies a stay applied for in the appeal or affirms the violation, then the applicant shall within thirty (30) days submit the proof required under subparagraph (1) of this paragraph.

(3) Any permit that is issued on the basis of proof submitted under subparagraph (1) of this paragraph that a violation is in the process of being corrected, or pending the outcome of an appeal described in subparagraph (2) of this paragraph, shall be conditionally issued.

(4) If the Director makes a finding that the applicant, or any person who owns or controls the applicant, or the operator specified in the application, controls or has controlled surface coal mining and reclamation operations with a demonstrated pattern of willful violations of the Act and these regulations of such nature and duration and with such resulting irreparable damage to the environment as to indicate an intent not to comply with the Act, or these regulations, the permit shall not be granted. Before such a finding becomes final, the applicant or operator shall be afforded an opportunity for an adjudicatory hearing.

(d) No permit application or application for a significant revision of a permit shall be approved unless the application affirmatively demonstrates and the Director finds, in writing, on the basis of information set forth in the application or from

information otherwise available that is documented in the approval, the following:

(1) The application is complete and accurate and the applicant has complied with all requirements of the Act and these regulations.

(2) The applicant has demonstrated that reclamation as required by the Act and these regulations can be accomplished under the reclamation plan contained in the permit application.

(3) The proposed permit area is:

(A) Not within an area under study or administrative proceedings under a petition filed, to have an area designated as unsuitable for surface coal mining operations, unless the applicant demonstrates that before January 4, 1977, he had made substantial legal and financial commitments in relation to the operation covered by the permit application; or

(B) Not within an area designated as unsuitable for mining and subject to the prohibitions or limitations of subsection (d), Section 22, of the Act.

(4) Where the private mineral estate to be mined has been severed from the private surface estate, an applicant shall also submit:

(A) A copy of the written consent of the surface owner for the extraction of coal by surface mining methods;

(B) A copy of the conveyance that expressly grants or reserves the right to extract coal by surface mining methods; or

(C) If the conveyance does not expressly grant the right to extract the coal by surface mining methods, documentation that under State law, the applicant has the legal authority to extract the coal by those methods.

(5) The Director has made an assessment of the probable cumulative impacts of all anticipated coal mining on the hydrologic balance in the cumulative impact area and has determined that the proposed operation has been designed to prevent material damage to the hydrologic balance outside the permit area.

(6) The applicant has demonstrated that any existing structure will comply with subsection 3.8 and Section 14 of these regulations.

(7) The applicant has paid all reclamation fees from previous and existing operations.

(8) The applicant has satisfied the applicable requirements for experimental practices, steep slope mining, mountaintop removal mining, variances from approximate original contour, variances for delay in contemporaneous reclamation, prime farmland, auger mining, in situ processing, and coal preparation plants not located within the permit area of a mine, when such are proposed in the application.

(9) The applicant has, if applicable, satisfied the requirements for approval of a long-term intensive agricultural postmining land use.

(10) The operation would not affect the continued existence of endangered or threatened species or result in destruction or adverse modification of their critical habitats, as determined under the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq.).

(11) The Director has taken into account the effect of the proposed permitting action on properties listed on and eligible for listing on the National Register of Historic Places. This finding may be supported in part by inclusion of appropriate permit conditions or changes in the operation plan protecting historic resources, or a documented decision that the Director has determined that no additional protection measures are necessary.

(12) For a proposed remining operation where the applicant intends to reclaim in accordance with the requirements of subsection 14.16 of these regulations, the site of the proposed operation is an area which was previously mined prior to August 3, 1977.

(13) The applicant has provided evidence that liability insurance in accordance with subsection 11.1 of these regulations is in effect.

(e) If the application is approved, the Director shall require that the applicant file a performance bond as provided in Sections 11 and 12 of the Act and Section 11 of these regulations.

(f) After an application is approved, but before a surface mining permit is issued, the Director shall reconsider his decision to approve the application, based on the compliance review required by paragraph (c) of this subsection in light of any new information submitted under paragraph (n) of subsection 3.1 of these regulations. Permit revisions and permit renewals are not subject to the provisions of this paragraph.

3.33 Permit Conditions. Each permit issued by the Director shall be subject to the following conditions:

(a) The permittee shall conduct surface coal mining and reclamation operations only on those lands that are specifically designated as the permit area on the maps submitted with the application and authorized for the term of the permit and that are subject to the bond or other equivalent guarantee in effect pursuant to Section 11 and Section 12 of the Act and Section 11 of these regulations.

(b) The permittee shall conduct all surface coal mining and reclamation operations only as described in the approved application, except to the extent that the Director otherwise directs in the permit.

(c) The permittee shall comply with the terms and conditions of the permit, all applicable performance standards of the Act, and these regulations.

(d) Without advance notice, delay, or a search warrant, upon presentation of appropriate credentials, the permittee shall allow the Director to:

(1) Have the right of entry provided for in subsection (a), Section 15 of the Act; and

(2) Be accompanied by private persons for the purpose of conducting an inspection in accordance with subsection 18.2 of these regulations when the inspection is in response to an alleged violation reported to the Director by the private person.

(e) The permittee shall take all possible steps to minimize any adverse impact to the environment or public health and safety resulting from non-compliance with any term or condition of the permit, including, but not limited to:

(1) Any accelerated or additional monitoring necessary to determine the nature and extent of non-compliance and the results of the non-compliance;

(2) Immediate implementation of measures necessary to comply; and

(3) Warning, as soon as possible after learning of such non-compliance, any person whose health and safety is in imminent danger due to the non-compliance.

(f) As applicable, the permittee shall comply with subsection 3.8 of these regulations and all applicable performance standards for compliance, modification, or abandonment of existing structures.

(g) The operator shall pay all reclamation fees for coal produced under the permit for sale, transfer or use.

(h) Within thirty (30) days after a cessation order is issued for operations conducted under the permit, except where a stay of the cessation order is granted and remains in effect, the permittee shall either submit to the Director the following information, current to the date the cessation order was issued, or notify the Director in writing that there has been no change since the immediately preceding submittal of such information:

(1) Any new information needed to correct or update the information previously submitted to the Director by the permittee under paragraph (c), subsection 3.1 of these regulations; or

(2) If not previously submitted, the information required from a permit applicant by paragraph (c), subsection 3.1 of these regulations.

(i) The obligations established under the permit, the Act, and these regulations shall continue regardless of whether the permit has expired, or has been terminated, suspended, or revoked. The bond and liability insurance shall remain in effect throughout the life of the permit, any renewal thereof, and the liability period necessary to ensure completion of reclamation.

3.34 Improvidently issued permits: General Procedures.

(a) Where the Director has reason to believe that an improvidently issued surface coal mining and reclamation permit exists, he shall review the circumstances under which the permit was issued. If, using the criteria set forth in paragraph (b) of this subsection, the Director finds that the permit was improvidently issued, he shall take action in accordance with paragraph (c) of this subsection.

(b) A surface coal mining and reclamation permit shall be determined to have been improvidently issued if under the violations review criteria in paragraph (b) of subsection 3.32 of this Section at the time the permit was issued:

(1) The permit should not have been issued because of an unabated violation or a delinquent penalty or fee and the violation, penalty or fee remains unabated or delinquent and is not the subject of a good faith appeal, or an abatement plan or payment schedule with which the permittee or other person responsible is complying to the satisfaction of the responsible agency;

(2) The permit was issued on the presumption that a notice of violation was in the process of being corrected to the satisfaction of the agency with jurisdiction over the violation, but a cessation order subsequently was issued;

(3) The permittee was linked to a violation, penalty, or fee through ownership or control, under the violation review criteria, paragraph (b) of subsection 3.32 of this Section at the time the permit was issued and an ownership or control link between the permittee and the person responsible for the violation, penalty, or fee still exists, or when the link was severed the permittee continues to be responsible for the violation, penalty, or fee.

(4) The permit should not have been approved because the permittee had a permit revoked or bond forfeited and has not been reinstated, or the permittee was linked to a permit revocation or bond forfeiture through ownership or control, at the time the permit was issued and an ownership or control link between the permittee and the person whose permit was revoked or whose bond was forfeited still exists, or when the link was severed the permittee continues to be responsible for the permit revocation or bond forfeiture.

(c) When the Director finds, under paragraph (b) of this subsection, that because of an unabated violation or a delinquent penalty or fee, permit revocation or a bond forfeiture, a permit was improvidently issued, he shall take one or more of the following remedial measures:

(1) Implement, with the cooperation of the permittee or other person responsible, and the responsible agency, a plan for abatement of the violation or a schedule for payment of the penalty or fee;

(2) Impose on the permit a condition requiring that in a reasonable period of time the permittee or other person responsible abate the violation or pay the penalty or fee;

(3) Suspend the permit until the violation is abated or the penalty or fee is paid; or

(4) Rescind the permit in accordance with paragraph (d) of this subsection.

(d) When the Director elects to rescind an improvidently issued permit, he shall serve on the permittee a notice of proposed suspension and rescission which includes the reasons for the finding and states that:

(1) After a specified period of time not to exceed ninety (90) days, the permit automatically will become suspended, and not to exceed ninety (90) days thereafter rescinded, unless within those periods the permittee submits proof, and the regulatory authority finds, that:

(A) The finding of the Director under paragraph (b) of this subsection was erroneous;

(B) The permittee or other person responsible has abated the violation on which the finding was based, or paid the penalty or fee, to the satisfaction of the Director;

(C) The violation, penalty or fee is the subject of a good faith appeal, or of an abatement plan or payment schedule with which the permittee or other person responsible is complying to the satisfaction of the responsible agency; or

(D) Since the finding was made, the permittee has severed any ownership or control link with the person responsible for, and does not continue to be responsible for, the violation, penalty, or fee.

(E) The permittee or other person responsible for the permit revocation or bond forfeiture has been reinstated, pursuant to subsection (c), Section 18, of the Act.

(e) Cessation of Operations. After permit suspension or rescission, the permittee shall cease all surface mining operations under the permit, except for violation abatement and for reclamation and other environmental protection measures as

required by the Act and these regulations and the terms and conditions of the permit.

(f) The permittee may file an appeal for administrative review of the notice in accordance with the provisions of subsection (e), Section 17 of the Act.

(g) For purposes of this subsection, a permit is issued when it is originally approved, as well as when a transfer, assignment, or sale of permit rights is approved pursuant to paragraphs (a) or (c), subsection 3.25 of this rule, or when a permit is revised pursuant to subsection 3.26 of this rule.

38-2-4. Haulageways, Roads or Access Roads.

4.1 Road Classification System.

(a) Each haulageway, road, or access road as defined in subsection 2.58 of these regulations shall be classified as either a primary road or an infrequently used access road.

(1) A primary road is any road which is:

(i) Used for transporting coal or spoil;

(ii) Frequently used for access or other purposes for a period in excess of six months; or

(iii) To be retained for an approved postmining land use.

(2) An infrequently used access road is any road not classified as a primary road.

4.2 Plans and Specifications.

(a) Each application for a surface coal mining and reclamation permit shall contain plans and specifications for each road to be constructed, used, or maintained within the proposed permit area. The plans and specifications shall include a map, appropriate cross sections, design drawings and specifications for road widths, gradients, surfacing materials, cuts, fill embankments, culverts, bridges, drainage ditches, low-water crossings, and drainage structures. These shall include at a minimum:

(1) A plan view of the road drawn to scale showing:

(A) The station base line;

(B) Location of culverts;

(C) Flow directions;

(D) Location of intermittent or perennial streams; and

(E) Other pertinent data as required by the Director.

(2) A surveyed profile or a profile drawing drawn to scale developed from a topographic contour map of sufficient scale and detail to provide the necessary level of accuracy showing:

(A) Profile of finished road surfaces;

(B) Location and size of culverts;

(C) Station elevations;

(D) Profile of original ground; and

(E) Percent grades.

(3) A typical cross-section or sections showing:

(A) Culvert placement;

(B) Slope of culvert;

(C) Fill material;

(D) Original ground;

(E) Ditches; and

(F) Sediment control devices.

(4) Construction specifications which explain in detail:

(A) Excavation;

(B) Selection and placement of materials;

(C) Vegetative protection against erosion;

(D) Road surfacing; and

(E) Drainage and sediment control measures.

(5) A description of the plans to remove, reclaim, and abandon each road that would not be retained under an approved postmining land use, and the schedule for removal, reclamation, and abandonment.

(6) The center line of the proposed haulageways or access roads shall be visibly marked or delineated by visible offset markings on the site at one hundred feet (100') intervals at the time of preinspection. Preexisting haulageways or access roads shall be exempt from this requirement.

(7) The plans, drawings, and design specifications for roads shall be prepared and certified by, or under the direction of, a qualified registered professional engineer or a qualified licensed land surveyor with experience in design and construction of roads. The engineer or land surveyor shall certify that the design of the road meets requirements of the Act, these rules and regulations, current prudent engineering practices, and any other design criteria established by the Director.

(b) No part of any road shall be located in the channel of an intermittent or perennial stream unless specifically approved by the Director in accordance with the following:

(1) Roads shall be located to minimize downstream sedimentation and flooding.

(2) Drawings and specifications must be provided for each proposed ford, low water crossing or other road crossing of an intermittent or perennial stream, as necessary for approval of the road by the Director in accordance with this subsection.

(3) A description must be provided indicating measures to be taken to obtain approval of the Director for alteration or relocation of a natural stream channel under subsections 5.2 and 5.3 of these regulations.

(4) The drawings and specifications for low-water crossings of perennial or intermittent stream channels must indicate measures to be taken so as to maximize the protection of the stream in accordance with subsection 5.2 of these regulations.

4.3 Existing Haulageways or Access Roads. Where existing roads are to be used for access or haulage and it can be demonstrated that reconstruction to meet the design and construction requirements of this section would result in greater environmental harm and the drainage and sediment control requirements of Section 5 of these regulations can otherwise be met, subparagraphs (1) and (2), paragraph (a), of subsection 4.5 and subparagraphs (2) (A) and (B) paragraph (a) of subsection 4.6 of this section will not apply.

4.4 Infrequently Used Access Roads. Prospecting roads are to be designed, constructed, maintained, and reclaimed in accordance with the provisions of subsection 13.6 of this rule. Other access roads constructed for and used only to provide infrequent service to facilities used in support of mining and reclamation operations may be exempt from the requirements of this section with the exception of the requirements of subsections 4.2, 5.3, ~~4.5(a)(1), 4.5(b), 4.6(a),~~ 4.7**(a)**, ~~and~~ 4.8 **and 4.9**; provided, That such roads will be designed to ensure environmental protection appropriate for their planned duration and use, including consideration of the type and size of equipment used, the design and construction or reconstruction of roads shall incorporate appropriate limits for grade, width, surface materials, surface drainage control, culvert placement, and culvert size, in accordance with current, prudent engineering practices, and any necessary design criteria established by the Director.

4.5 Construction.

(a) Construction of haulageways or access roads shall be done in accordance with the following:

(1) The overall grade shall not exceed ten percent (10%);

(2) The maximum pitch grade shall not exceed fifteen percent (15%) for three hundred feet (300') in each one thousand feet (1,000');

(3) The surface shall pitch toward the ditch line at the minimum slope of one-half inch (1/2") per foot of surface width or shall be crowned at the minimum slope of one-half inch (1/2") per foot of surface width as measured from the center line;

(4) The grade on switchback curves shall be reduced to less than the approach grade and should not be greater than ten percent (10%); and

(5) Cut slopes shall not be steeper than 1:1 in soils or 1/4:1 in rock.

(b) All grade measurements and linear measurements in this section shall be subject to a tolerance of two percent (2%). All angles in this section shall be measured from the horizontal and shall be subject to a tolerance of five percent (5%).

4.6 Drainage Design.

(a) All drainage designs of haulageways or access roads shall be in accordance with the following:

(1) A ditch shall be provided on both sides of a throughcut and on the inside shoulder of a cut-fill section, with ditch relief culverts being spaced according to grade. Water shall be intercepted or directed around and away from a switchback. All ditch lines shall be capable of passing the peak discharge of a ten (10) year, twenty-four (24) hour precipitation event. Where super elevation to the inside of a curve will improve the safety of a haulroad such as in the head of a hollow, a ditch line may be located on the outside shoulder of cut fill section if the ditch line is designed so that it will remain stable and that drainage control is also provided for water on the outside of the curve.

(2) Ditch relief culverts shall be installed wherever necessary to insure proper drainage of runoff water beneath or through the haulageways or access road, according to the following specifications:

(A) Road Grade in Percent:	Spacing of Culverts in Feet
0-5	300-800
6-10	200-300
11-15	100-200

(B) The culvert shall cross the haulageway or access road at a thirty (30) degree horizontal angle downgrade with a minimum grade of three percent (3%) from inlet to outlet, except in intermittent or perennial streams where the pipe shall be straight and coincide with the normal flow;

(C) The inlet end shall be protected by a headwall of durable material and the slope at the outlet end shall be protected with an apron of rock riprap, an energy dissipator or other similar structure;

(D) Culverts shall be installed and maintained to sustain the vertical soil pressure, the passive resistance of the foundation, and the weight of the vehicles using the road;

(E) Alternative design criteria for culverts may be approved by the Director where the design criteria of this section is demonstrated to be impractical or unnecessary; and

(F) The cross sectional area of all culverts installed on haulageways and access roads shall be adequate to pass the peak discharge storm runoff from a one (1) year twenty-four (24) hour precipitation event from the contributing watershed, but in no event shall the cross sectional area be less than one hundred square inches.

(b) Culverts, bridges or other structures shall be used to cross intermittent or perennial streams. During construction, consideration shall be given to such factors as weather conditions, season of the year, time period for construction, etc., in order to minimize adverse impacts on the water quality and to the stream channel. These structures shall be capable of passing the peak flow for a ten (10) year, twenty-four (24) hour precipitation event from the contributing watershed. Structures of a lesser design capacity may be approved by the Director if the flow through capacity of the structure itself is at least equal to or greater than the flow capacity of the stream channel as measured immediately upstream and downstream of the crossing; provided that the structure shall pass the peak of a one (1) year, twenty-four (24) hour precipitation event.

4.7 Performance Standards.

(a) Each road shall be located, designed, constructed, reconstructed, used, maintained, and reclaimed so as to:

(1) Minimize downstream sedimentation and flooding;

(2) Control or prevent erosion, siltation, and the air pollution attendant to erosion, including road dust as well as dust occurring on other exposed surfaces, by measures such as vegetating, watering, using chemical or other dust suppressants, or otherwise stabilizing all exposed surfaces in accordance with current, prudent engineering practices;

(3) Control or prevent damages to fish, wildlife, or their habitat and related environmental values;

(4) Control or prevent additional contributions of suspended solids to stream flow or runoff outside the permit area;

(5) Neither cause nor contribute to, directly or indirectly, the violation of State or Federal water quality standards applicable to receiving waters;

(6) Refrain from seriously altering the normal flow of water in streambeds or drainage channels;

(7) Prevent or control damage to public or private property, including the prevention or mitigation of adverse effects on lands within the boundaries of units of the National Park System, the National Wildlife Refuge System, the National System of Trails, the National Wilderness Preservation System, the Wild and Scenic Rivers System, including designated study rivers and National Recreation Areas designated by Act of Congress; and

(8) Use non-acid and non-toxic forming substances in road surfacing.

(b) All sediment control structures shall have an adequate sediment storage volume and detention time. The optimum design factor for achieving this criteria is 0.125 acre/feet for each acre of disturbed area within the watershed of the structure; however, lesser storage values may be approved by the Director if the lesser values will achieve compliance with applicable effluent limits and the requirements of paragraph (a) of this subsection.

4.8 Maintenance.

(a) A road shall be maintained to meet the performance standards of this part and any additional criteria specified by the Director.

(b) A road damaged by a catastrophic event, such as a flood or earthquake, shall be repaired as soon as is practicable after the damage has occurred.

4.9 Reclamation. A road not to be retained under an approved postmining land use shall be reclaimed in accordance with the approved reclamation plan as soon as practicable after it is no longer needed for mining and reclamation operations. This reclamation shall include:

(a) Closing the road to traffic;

(b) Removing all bridges and culverts unless approved as part of the postmining land use;

(c) Removing or otherwise disposing of road-surfacing materials that are incompatible with the postmining land use and revegetation requirements;

(d) Reshaping cut and fill slopes as necessary to be compatible with the postmining land use and to complement the natural drainage pattern of the surrounding terrain;

(e) Haulageways or access roads shall be abandoned in accordance with the following:

(1) Prior to abandonment of haulageways or access roads, efforts shall be made to prevent erosion by the use of culverts, water bars or other devices. Water bars or earth berms shall be installed according to the following table of spacings:

Percent Grade of Haulageway or Access Road	Spacing of Water Bars in Lineal Feet
2	250
5	135
10	80
15	60
20	45
Above 20	25

(2) Upon abandonment, all areas of haulageways or access roads shall be immediately seeded and mulched.

(f) Scarifying or ripping the roadbed; replacing topsoil or substitute material, and revegetating disturbed surfaces in accordance with subsection 14.3 and Section 9 of these regulations.

4.10 Primary Roads.

(a) Primary roads shall meet the requirements of this section and the following additional requirements:

(1) The construction or reconstruction of primary roads shall be certified in a report to the Director by a qualified registered professional engineer, or a licensed land surveyor with experience in the design and construction of roads. The report shall indicate that the primary road has been constructed or reconstructed as designed and in accordance with the approved plan.

(2) Each primary road embankment shall have a minimum static factor of 1.3.

(3) To minimize erosion, a primary road shall be located, insofar as is practicable, on the most stable available surface.

(4) Fords of perennial or intermittent streams by primary roads are prohibited unless they are specifically approved by the Director as temporary routes during periods of road construction.

(5) Each primary road shall be constructed or reconstructed and maintained to have adequate drainage control, using structures such as, but not limited to, bridges, ditches, cross drains, and ditch relief drains. The drainage control system shall be designed to safely pass the peak runoff from a ten (10) year, twenty-four (24) hour precipitation event;

(6) Drainage pipes and culverts shall be installed as designed, and maintained in a free and operating condition and to prevent or control erosion at inlets and outlets;

(7) Drainage ditches shall be constructed and maintained to prevent uncontrolled drainage over the road surface and embankment;

(8) Culverts shall be installed and maintained to sustain the vertical soil pressure, the passive resistance of the foundation, and the weight of vehicles using the road; and

(9) Natural stream channels shall not be altered or relocated without the prior approval of the Director.

(b) Except as provided in subparagraph (4), paragraph (a) of this subsection, structures for perennial or intermittent stream channel crossings shall be made using bridges, culverts, low-water crossings, or other structures designed, constructed, and maintained using current, prudent engineering practices. The Director shall ensure that low-water crossings are designed, constructed, and maintained to prevent erosion of the structure or stream bed and additional contributions of suspended solids to stream flow.

(c) Primary roads shall be surfaced with material approved by the Director as being sufficiently durable for the anticipated volume of traffic and the weight and speed of vehicles using the road.

4.11 <u>Support Facilities and Transportation Facilities</u>.

(a) Railroad loops, spurs, sidings, surface conveyor systems, chutes, aerial tramways or other transportation facilities which are under the control of the permittee shall be designed, constructed, maintained and abandoned so as to comply with the following:

(1) Control or prevent erosion, siltation, and the air pollution attendant to erosion;

(2) Control or prevent damage to fish, wildlife or their habitat and related environmental values;

(3) Control or prevent additional contributions of suspended solids to stream flow or runoff outside the permit area;

(4) Neither cause nor contribute, directly or indirectly, to the violation of State or Federal water quality standards applicable to receiving waters; and

(5) Prevent or control damage to public or private property.

4.12 Certification. Upon completion of construction or reconstruction, all primary roads for which design criteria were approved as part of the permit shall be certified. Such certification shall affirm that construction was done in accordance with the approved criteria except as otherwise noted in the certification statement. Where the certification statement indicates a change from the design standards or construction requirements approved in the permit, such changes will be documented in as-built plans. ~~and submitted for approval to the Director as a permit revision.~~ **If as-built plans are submitted, the certification shall describe how and to what extent the construction deviates from the proposed design, and shall explain how and certify that the road will meet performance standards.** The certification shall be on forms approved by the Director and signed by an approved licensed engineer or an approved licensed land surveyor with experience in design and construction of roads. All roads used for transportation of coal or spoil, and which are constructed outside the permitted coal extraction area, shall be certified before they are used for such transportation. Any road which lies within the coal extraction area, and which is therefore constructed concurrent with progress of mining activities, shall be certified in sections of one thousand (1,000) linear feet or less as measured from the active pit.

38-2-5. Drainage and Sediment Control Systems

5.1 Natural Drainways. Natural drainways in the permit area shall be kept free of overburden except where overburden placement has been approved. Overburden placement and haulageways constructed across natural drainways shall not materially increase the sediment load, or materially affect stream quality.

5.2 Intermittent or Perennial Stream.

(a) Intermittent or Perennial Stream. No land within one hundred feet (100') of an intermittent or perennial stream shall be disturbed by surface mining operations including roads unless specifically authorized by the Director. The Director will authorize such operations only upon finding that surface mining activities will not adversely affect the normal flow or gradient of the stream, adversely affect fish migration or related environmental values, materially damage the water quantity or quality of the stream and will not cause or contribute to violations of applicable State or Federal water quality standards. The area not to be disturbed shall be designated a buffer zone and marked accordingly.

5.3 Stream Channel Diversions and Diversion Ditches.

(a) All stream channel diversions and diversion ditches shall be designed for safety and stability, shall be constructed in such a manner so as to avoid additional contributions of suspended solids to streams, and shall provide protection against flooding and resulting damage to life and property. The design and construction shall be certified by a registered professional engineer.

(b) Stream Channel Diversions:

(1) Temporary and permanent stream channel diversions shall be designed so as to have at a minimum the capacity to carry the flow of the existing stream channel. The maximum flow carrying capacity of the existing stream channel shall be determined on the basis of cross-sectional area of the stream channel at points immediately upstream and downstream of the segment to be diverted. A combination of the cross-sectional area of the stream channel diversion, the stream bank, and the flood-plain configuration shall be adequate to pass safely the peak runoff of a ten (10) year, twenty-four (24) hour precipitation event for a temporary stream channel diversion and

a one hundred (100) year, twenty-four (24) hour precipitation event for a permanent stream channel diversion.

(2) The following information shall be made a part of the permit application when stream channel diversions are proposed:

(A) A "stream channel design computation sheet" for each proposed temporary or permanent stream channel diversion;

(B) Construction plans which contain:

(i) A plan view of the area showing center line profiles of the existing stream channel and proposed location of the temporary or permanent stream channel;

(ii) A profile along the center line of the existing stream channel showing gradient of the stream bottom and top of channel;

(iii) A profile along the center line of the proposed temporary or permanent stream channel diversion showing gradient of the stream bottom and top of channel;

(iv) A cross section showing original ground limits, bottom width, side slopes, depth of flow, floodplain configuration; and

(v) A detailed description of the sequence of installation of temporary or permanent stream channel diversion.

(C) Construction specifications; and

(D) Maintenance schedule and procedures for maintenance.

(c) Diversion Ditches:

(1) Diversions shall have the capacity to pass safely the peak discharge from a ten (10) year, twenty-four (24) hour precipitation event.

(2) Plans, Design Data and Specifications. Where the permit application proposes the use of diversion ditches, the drainage plan shall contain the following:

(A) A "Diversion Design Computation Sheet" for each proposed diversion;

(B) Construction plans showing:

(i) A surveyed profile along the center line of the diversion showing the original ground line and proposed depth of the diversion;

(ii) A cross section showing the original ground line, bottom width, side slopes, depth of flow, freeboard and other pertinent information;

(iii) The type of soil in which the diversion will be excavated. The soil shall be sampled and classified at five hundred feet (500') intervals along the center line of the diversion;

(iv) The type and design of the outlet proposed for each diversion;

(v) A maintenance schedule and procedures for maintenance;

(vi) Construction specifications; and

(vii) A vegetation plan.

5.4 Sediment Control.

(a) General.

Sediment control or other water retention structures shall be constructed in appropriate locations for the purposes of controlling sedimentation. All runoff from the disturbed area shall pass through a sedimentation control system. All such systems or other water retaining structures used in association with the mining operation shall be designed, constructed, located, maintained, and used in accordance with these regulations and in such a manner as to minimize adverse hydrologic impacts in the permit and adjacent areas, to prevent material damage outside the permit area and to assure safety to the public.

(b) Design and Construction Requirements. All sediment control or other water retention structures used in association with the mining operation shall:

(1) Be constructed in accordance with the plans, design criteria, and specifications set forth in the preplan. Any deviations from the approved preplan which result from unforeseen site specific circumstances arising during construction, shall be reflected in as-built plans submitted by the operator and approved by the Director immediately following construction. The as-built plans shall indicate the original design, the extent of changes, and reference points. Sediment control structures shall be certified in accordance with the requirement of paragraph (d) of this subsection.

(2) Be located as near as possible to the disturbed area and out of perennial streams unless the applicant demonstrates and the Director finds that there is no other suitable location for such structures.

(3) Comply with applicable State and Federal water quality standards and meet effluent limitations as specified in an NPDES permit for all discharges.

(4) Have the capacity to store 0.125 Acre/ft. of sediment for each acre of disturbed area in the structures watershed; provided, that consideration may be given for reduced storage volume where the preplan and site conditions reflect controlled placement, concurrent reclamation practices, or use of sediment control structures; provided further, that reduced storage volume will be approved only where the operator demonstrates that the effluent limitations of paragraph (b), subsection 14.5 of these regulations will be met. The disturbed area for which the structure is to be designed will include all land affected by previous surface mining operations that are not presently stabilized and all land that will be disturbed throughout the life of the permit.

(5) Be equipped with a nonclogging dewatering device of an adequate design and size to maintain the storage requirements of subparagraph (4) of this paragraph.

(6) Be designed, constructed and maintained to prevent short-circuiting.

(7) Be cleaned out when the sediment accumulation reaches sixty percent (60%) of design capacity. Clean-out elevation shall be to a level so as to restore design storage capacity as indicated on plans submitted for each structure. Sediment removal and disposal shall be done in a manner and at a frequency that minimizes adverse impacts on surface and groundwater quality.

(8) Be designed to safely pass a twenty-five (25) year, twenty-four (24) hour precipitation event. The combination of both principal and/or emergency spillway of the structures shall be designed to safely pass the peak discharge of a twenty-five (25) year, twenty-four (24) hour precipitation event, provided, that a single open channel spillway may be used only if it is of non-erodable construction and designed to carry sustained flows; or earth or grass-lined and designed to carry short term, infrequent flows at non-erosive velocities where sustained flows are not expected; provided, however, that excavated sediment control structures which are at ground level and which have an open exit channel constructed of non-erodible material may be designed to pass the peak discharge of a ten (10) year twenty-four (24) hour precipitation event.

(9) Provide adequate freeboard to resist overtopping by waves or sudden increases in volume and adequate slope protection against surface erosion and sudden drawdown.

(10) Provide that an impoundment meeting the size or other criteria of 30 CFR 77.216(a) or Chapter 22, Article 14, of the Code of West Virginia, or located where failure would be expected to cause loss of life or serious property damage shall have a minimum static safety factor of 1.5 for a normal pool with steady state seepage saturation conditions, and a seismic safety factor of at least 1.2. Impoundments not meeting the size or other criteria of 30 CFR 77.216 (a) or Chapter 22, Article 14, of the Code of West Virginia, except for a coal mine waste impounding structure, and located where failure would not be expected to cause loss of life or serious property damage shall have a minimum static safety factor of 1.3 for a normal pool with steady state seepage saturation conditions.

(11) Control discharge by use of energy dissipaters, riprap channels or other devices to reduce erosion, to prevent deepening or enlargement of stream channels and to minimize disturbance of the hydrologic balance. Discharge structures shall be designed using standard engineering procedures.

(12) Provide for stable foundations during all phases of construction and operation and be designed based on adequate and accurate information on the foundation conditions. For structures meeting the criteria of subparagraph 10 of this paragraph, provide foundation investigations and any necessary laboratory testing.

(13) Prior to construction, all such structures shall be certified to be in accordance with design requirements of the

Act, these regulations, and other design criteria established by the Director.

(c) In addition to the requirements of subsection (b) of this section, all embankment type sediment control or other water retention structures ~~which may include slurry impoundments~~ shall be designed, constructed and maintained to meet the following safety standards:

(1) Embankment type sediment control and water retention structures shall be designed with a combination of principal and/or emergency spillways that will safely pass a twenty-five (25) year, twenty-four (24) hour precipitation event. The principal spillway requirements may be waived if the emergency spillway is an open channel constructed of nonerodable material, is capable of maintaining sustained flows, and is designed to safely pass the peak discharge of a twenty-five (25) year, twenty-four (24) hour precipitation event;

(2) All embankment type sediment control or water retention structures shall be properly stabilized and revegetated upon completion of construction and regrading of the embankment and surrounding areas;

(3) In constructing the embankment, the operator shall remove all organic matter from the foundation, install cutoff trenches where necessary to ensure stability, provide for proper compaction and ensure against excessive settlement by excluding sod, roots, frozen soil or coal processing wastes from the embankment;

(4) If an inspection or examination discloses that a potential hazard exists, the person who inspected or examined the embankment shall promptly inform the Division of Environmental Protection of the findings and of the emergency procedures formulated for public protection and remedial action. If adequate procedures cannot be formulated or implemented, the Division of Environmental Protection shall be notified immediately and then notify the appropriate agencies that other emergency procedures are required to protect the public;

(5) A sediment control or water retention structure which is constructed in such a manner that it: (1) Rises twenty-five (25) feet or more above the natural bed of a stream or watercourse as measured from the downstream toe of the embankment and which does or can impound fifteen (15) acre-feet or more of water; or, (2) Rises six (6) feet or more above the natural bed of a stream or watercourse as measured from the

downstream toe of the embankment and which does or can impound fifty (50) acre-feet or more of water, is by definition a dam and is thereby subject to the provisions of the West Virginia Dam Control Act set forth in Chapter 22, Article 14, of the Code of West Virginia.

(6) Embankment type sediment control or water retention structures which impound water at an elevation of five feet (5') or more above the upstream toe of the structure and can have a storage volume of twenty (20) acre-feet or more; which impound water at an elevation of twenty feet (20') or more above the upstream toe of the structure; or which present a hazard to coal miners as determined by an MSHA District Manager; shall be designed, constructed, inspected, and abandoned in accordance with Federal regulations set forth in 30 CFR 77.216. All design plans, and specifications shall be made a part of the permit application. In addition to these requirements, the following minimum standards shall be met:

(A) An appropriate combination of principal and emergency spillways shall be provided to pass safely the runoff resulting from a one hundred (100) year, twenty-four (24) hour precipitation event, or a larger event as specified by the Director;

(B) The embankment shall be designed, constructed, and maintained with a static safety factor of at least 1.5 or a specified higher safety factor as required to ensure long-term stability and a seismic factor of safety of 1.2;

(C) Appropriate barriers to control seepage shall be installed along the conduits that extend through the embankments; and

(D) The detailed design plan shall include a stability analysis which includes but is not limited to strength parameters, pore pressures, and long-term seepage conditions. The design plan will also include a description of each engineering design assumption and calculation.

(d) Certification.

(1) Prior to any surface mining activities in the component drainage area of a permit controlled by a sediment control structure, that specific structure shall be certified as to construction in accordance with the plans, designs, and specifications set forth in the preplan, or in accordance with as-built plans. If as-built plans are submitted, the

certification shall describe how and to what extent the construction deviates from the proposed design, and shall explain how and certify that the structure will meet performance standards. Such certification shall be submitted on forms prescribed by the Director. Where sediment control or other water retention structures are constructed in sequence with the advance of the mining operation to allow for on-bench construction, such systems shall be constructed and certified in sections of one thousand (1,000) linear feet or less as measured from the active pit. This certification shall include a map showing the exact location of the section being certified.

(2) Design and construction certification of non-embankment type sediment control structures may be performed by a registered professional engineer or a licensed land surveyor.

(3) Design and construction certification of embankment type sediment control structures may be performed only by a registered professional engineer or licensed land surveyor experienced in construction of embankments.

(4) Design and construction certification of coal refuse impoundments and embankment type impoundments meeting or exceeding the size requirements or other criteria of Federal MSHA regulations at 30 CFR 77.216 (a) may be performed only by a registered professional engineer experienced in the design and construction of impoundments.

(e) Inspections.

Inspection of impoundments, including sediment control or other water retention structures, shall be in accordance with the following:

(1) A qualified registered professional engineer or other qualified professional specialist, under the direction of the professional engineer, shall inspect each impoundment or sediment control structure provided, that a licensed land surveyor may inspect those impoundments or sediment control or other water retention structures which do not meet the size or other criteria of 30 CFR 77.216(a) or Chapter 22, Article 14, of the Code of West Virginia, and which are not constructed of coal processing waste or coal refuse. The professional engineer, licensed land surveyor, or specialist shall be experienced in the construction of impoundments and sediment control structures.

(2) Inspections shall be made regularly but not less than quarterly during construction, upon completion of

construction, and at least yearly until removal of the structure or release of the performance bond.

(3) The qualified registered professional engineer or licensed land surveyor shall promptly, after each inspection, provide to the Director a certified report that the impoundment or sediment control structure has been constructed and maintained as designed and in accordance with the approved preplan. The report shall include discussion of any appearances of instability, structural weakness or other hazardous conditions, depth and elevation of any impounded waters, existing storage capacity, any existing or required monitoring procedures and instrumentation and any other aspects of the structure affecting stability.

(4) A copy of the report shall be retained at or near the mine site.

(f) Examinations. Embankments subject to Federal MSHA regulations at 30 CFR 77.216 must be examined in accordance with 77.216-3 of said regulations. Other embankments shall be examined at least quarterly by a qualified person designated by the operator for appearance of structural weakness and other hazardous conditions. Examination reports shall be retained for review at or near the operation.

(g) Maintenance. Prior to Phase 1 bond release, all sediment control structures shall be cleaned out so as to meet design storage capacity in all areas not revegetated and stabilized.

(h) Abandonment Procedures. Abandonment and/or removal of sediment control or other water retention structures shall not occur until two (2) years after the last augmented seeding nor less than two (2) years before final bond release. Minimum requirements for abandoning sediment control or other water retention structures prior to full bond release are as follows:

(1) Unless otherwise approved in the reclamation plan, dugout-type sediment control or other water retention structures, diversion ditches, and other non-impounding sediment control or other water retention structures shall be removed and the land upon which they are situated shall be regraded and revegetated in accordance with the reclamation plan. Sediment control or other water retention structures approved by the Director as permanent structures are exempt from these requirements.

(2) Embankment type sediment dams, embankment type excavated sediment dams and crib and gabion dams, and all accumulated sediment behind the dam shall be removed from the natural drainway. The natural drainway shall be returned as nearly as practicable to its original profile and cross section with the channel sides and bottom rock ripraped up to the top of the channels banks. The riprap requirement may be waived where the bottom and sides of the channel consist of bedrock.

(3) All areas disturbed during abandonment of a sediment control or other water retention structures shall be seeded and mulched immediately to stabilize the area.

(4) Waste material shall be spread over an area within the permit boundaries in accordance with the following specifications:

(A) Provisions shall be made for the diversion or safe passage of surface water concentrating on the land side of the waste bank.

(B) The waste shall be placed so as not to endanger the stability of the stream bank and shall not exceed three feet (3') in height above the natural ground surface, except by special design. Special designs shall be submitted with the drainage plan. The finished surface shall slope away from the edge of the stream or drainway insofar as feasible.

(C) Surface of waste shall not be steeper than two (2) horizontal to one (1) vertical. If the waste is spread to the edge of the stream bank, the stream side slope of the waste shall be shaped to join the side slope of the stream bank.

5.5 Permanent Impoundments. Those sediment control or other water retention structures or impounding structures to be left in place after final bond release shall be considered permanent and, if authorized by the Director as part of the permit application or a revision to a permit, may be left in accordance with the following requirements; provided, that a structure which is subject to the requirements of either 30 CFR 77.216 or Chapter 22, Article 14 of the Code of West Virginia, may not be retained as a permanent impoundment, but shall be reclaimed:

(a) A request to leave the structure will be made on forms prescribed by the Director and submitted as a permit revision;

(b) The request will contain a statement as to the present conditions of the structure;

(c) The request will contain a statement signed by the landowner and the operator asserting that the landowner assumes liability for the structure to the extent provided by state law, and will provide for sound future maintenance of the structure;

(d) The size and configuration of such permanent structure will be adequate for its intended purposes;

(e) The quality of water will be suitable on a permanent basis for its intended use and, after reclamation, will meet applicable State and Federal water quality standards, and discharges will meet applicable effluent limitations and will not degrade the quality of receiving water below applicable State and Federal water quality standards;

(f) The water level will be sufficiently stable and be capable of supporting the intended use;

(g) Final grading will provide for adequate safety and access for proposed water users;

(h) The permanent structure will not result in the diminution of the quality and quantity of water utilized by adjacent or surrounding landowners for agricultural, industrial, recreational, or domestic use; and

(i) The permanent structure will be suitable for the approved postmining land use.

38-2-6 Blasting.

6.1 General Requirements. Each operator shall comply with all applicable state and federal laws in the use of explosives. A blaster certified by the Division of Environmental Protection shall be responsible for all blasting operations including the transportation, storage and use of explosives within the permit area in accordance with the blasting plan.

6.2 Blasting Plan. Each application for a permit, where blasting is anticipated, shall include a blasting plan. The blasting plan shall explain how the applicant will comply with the blasting requirements of the Act, these regulations, and the terms and conditions of the permit. This plan shall include, at a minimum, information setting forth the limitations the operator will meet with regard to ground vibration and airblast, the basis for those limitations, and the methods to be applied in controlling the adverse effects of blasting operations.

6.3 Public Notice of Blasting Operations.

(a) At least ten (10) days, but not more than thirty (30) days, prior to any blasting operations which detonate five (5) pounds or more of explosives at any given time, the operator shall publish, a blasting schedule in a newspaper of general circulation in the county of the proposed permit area. Copies of the schedule shall be distributed by certified mail to local governments, public utilities and each resident within one-half (1/2) mile of the blasting site. Unless blasting will occur on drainage structures and roads, such structures will be exempt from the one-half (1/2) mile notification area. The operator shall republish and redistribute the schedule at least every twelve (12) months and revise and republish the schedule at least ten (10) days, but not more than thirty (30) days, prior to blasting whenever the area covered by the schedule changes or actual time periods for blasting significantly differ from that set forth in the prior schedule. The schedule shall contain at a minimum:

(1) Name, address and telephone number of the operator;

(2) Identification of the specific areas in which blasting will take place;

(3) Dates and times when explosives are to be detonated;

(4) Methods to be used to control access to the blasting area; and

(5) Types and patterns of audible warning and all clear signals to be used before and after blasting.

(b) Surface blasting activities incident to underground coal mining are not subject to the requirements of paragraph (a) of this subsection so long as all local governments and residents or owners of dwellings or structures located within one-half (1/2) mile of the blast site are notified in writing by the operator of proposed times and locations of the blasting operation. Such notice of times that blasting is to be conducted may be announced weekly, but in no case less than twenty-four (24) hours before the blasting will occur.

6.4 Blast Record.

(a) A blasting log book formatted in a manner prescribed by the Director shall be kept current daily and made available for inspection at the site by the Director and upon written request by the public.

(b) The blasting log shall be retained by the operator for three (3) years.

(c) The blasting log shall, at a minimum, contain the following information:

(1) Name of permittee, operator or other person conducting the blast;

(2) Location, date and time of blast;

(3) Name, signature and certification number of blaster-in-charge;

(4) Identification of nearest structure not owned or leased by the operator and direction and distance, in feet, to such structure;

(5) Weather conditions;

(6) Type of material blasted;

(7) Number of holes, burden and spacing;

(8) Diameter and depth of holes;

(9) Types of explosives used;

(10) Weight of explosives used per hole;

(11) Total weight of explosives used;

(12) Maximum weight of explosives detonated within any eight (8) millisecond period;

(13) Method of firing and type of circuit;

(14) Type and length of stemming;

(15) If mats or other protections were used;

(16) Type of delay detonator used and delay periods used;

(17) Seismograph records and air blast records shall include but not be limited to:

(A) Seismograph and air blast reading, including exact location, date, and time of reading and its distance from the blast;

(B) Name of person and firm taking the readings;

(C) Name of person and firm analyzing the record, where analysis is necessary;

(D) Type of instrument, sensitivity and calibration signal or certification of annual calibration;

(18) Shot location;

(19) Sketch of delay pattern to include the entire blast pattern and all decks; and

(20) Reasons and conditions for unscheduled blasts.

6.5 Blasting Procedures.

(a) All blasting shall be conducted during daytime hours, between sunrise and sunset; provided, that the Director may specify more restrictive time periods based on public requests or other consideration, including the proximity to residential areas. No blasting shall be conducted on Sunday. Blasting shall not be conducted at times different from those announced in the

blasting schedule except in emergency situations where rain, lightning or other atmospheric conditions, or operator or public safety requires unscheduled detonations. Blasting shall be conducted in such a way so as to prevent injury to persons, damage to public or private property outside the permit area, adverse impacts on any underground mine, and change in the course channel, or availability of surface or groundwater outside the permit area.

(b) Safety precautions:

(1) Three (3) minutes prior to blasting, a warning signal audible to a range of one-half (1/2) mile from the blast site will be given. This preblast warning shall consist of three (3) short warning signals of five (5) seconds duration with five (5) seconds between each signal. One (1) long warning signal of twenty (20) seconds duration shall be the "all clear" signal. Each person in the permit area, and each person who resides or regularly works within one-half (1/2) mile of the permit area shall be notified of the meaning of these signals;

(2) All approaches to the blast area shall be guarded against unauthorized entry prior to and immediately after blasting;

(3) All charged holes shall be guarded and posted against unauthorized entry; and

(4) The certified blaster shall be accompanied by at least one other person at the time of firing of the blast.

(c) Airblast Limits:

(1) Airblast shall not exceed the maximum limits listed below at the location of any dwelling, public buildings, school, church, or community or institutional building outside the permit area.

Lower frequency limit of measuring system in Hz (± 3 dB)	maximum level, in db
0.1 Hz or lower --flat response [1]	134 peak.
2 Hz or lower -- flat response	133 peak.
6 Hz or lower -- flat response	129 peak.
C-weighted--slow response [1]	105 peak dBC.

[1] Only when approved by the Director

(2) If necessary to prevent damage, the Director may specify lower maximum allowable airblast levels for use in the vicinity of a specific blasting operation.

(3) Monitoring. The operator shall conduct periodic monitoring to ensure compliance with the airblast standards. The Director may require airblast measurement of any or all blasts and may specify the locations at which such measurements are taken. The air blast measuring systems used shall have an upper-end flat-frequency response of at least 200 Hz.

(d) Flyrock, including blasted material, shall not be cast from the blasting site more than half way to the nearest dwelling or other occupied structure, beyond the area of control specified in paragraph (e) of this subsection, or in no case beyond the bounds of the permit area.

(e) Access to the blast area shall be controlled against the entrance of livestock or unauthorized personnel during blasting and for a period thereafter until an authorized person has reasonably determined:

(1) That no unusual circumstances exist such as imminent slides or undetonated charges, etc.; and

(2) That access to and travel in or through the area can be safely resumed.

(f) At the request of the Director, the operator shall monitor air blast levels using an instrument with an upper-end flat-frequency response of at least 200 Hz.

(g) Blast design.

(1) An anticipated blast design shall be submitted if blasting operations will be conducted within:

(A) 1,000 feet of any building used as a dwelling, public building, school, church, or community or institutional building outside the permit area; or

(B) 500 feet of an active or abandoned underground mine.

(2) The blast design may be presented as part of a permit application or at a time, before the blast as approved by the Director.

(3) The blast design shall contain sketches of the drill patterns, delay periods, and decking and shall indicate the type and amount of explosives to be used, critical dimensions, and the location and general description of structures, including protected structures, to be protected, as well as a discussion of design factors to be used, which protect the public and meet the applicable airblast, flyrock, and ground-vibration standards.

(4) The blast design shall be prepared and signed by a certified blaster.

(5) The Director may require changes to the design submitted.

(h) No blasting within five hundred (500) feet of an underground mine not totally abandoned shall be permitted except with the concurrence of the Division of Environmental Protection, the operator of the underground mine and MSHA. The Director may prohibit blasting on specific areas where it is deemed necessary for the protection of public or private property or the general welfare and safety of the public.

(i) The operator may use the following scaled distance formulas to determine the allowable maximum weight of explosives (lbs) to be detonated in any eight millisecond period without seismic monitoring:

Formula	Distance in Feet from the Blasting Site to the Nearest Protected Structure
$W = (D/50)^2$	0 - 300 feet
$W = (D/55)^2$	301 - 5,000 feet
$W = (D/65)^2$	5,001 feet or greater

W = Weight of explosives in pounds
D = Distance to the nearest structure

(j) The scaled distance formulas need not be used if a seismograph measurement at the nearest protected structure is recorded and maintained for every blast. The peak particle velocity in inches per second in any one of the three mutually perpendicular directions shall not exceed the following values at any protected structure:

Seismograph Measurement	Distance to the Nearest Protected Structure
1.25	0 - 300 feet
1.0	301 - 5,000 feet
0.75	5,001 feet or greater

(k) The Director may require a seismograph recording of any or all blasts based on the physical conditions of the site in order to prevent injury to persons or damage to property.

(l) The maximum allowable ground vibration as provided in paragraphs (i) and (j) of this subsection shall be reduced by the Director, if determined necessary to provide damage protection.

(m) The maximum airblast and ground-vibration standards of paragraphs (c) and (j) of this Section shall not apply at the following locations:

(1) At structures owned by the permittee and not leased to another person.

(2) At structures owned by the permittee and leased to another person, if a written waiver by the lessee is submitted to the Director before blasting.

6.6 Blasting Control for Other Structures

(a) All other structures in the vicinity of the blasting area which are not defined as protected structures at subsection 2.96 of these regulations shall be protected from damage by establishment of a maximum allowable limit on ground vibration, specified by the operator in the blasting plan and approved by the Director.

(b) The plan submitted under this subsection shall not reduce the level of protection for other structures otherwise provided for in these regulations.

6.7 Certified Blasting Personnel. Each person responsible for blasting operations shall be certified. Each certified blaster shall have proof of certification either on his person or on file at the permit area during blasting operations. Certified blasters shall be familiar with the blasting plan and blasting related performance standards for the operation at which they are working.

6.8 Preblast Survey.

(a) At least thirty (30) days prior to beginning of blasting operations, the operator shall inform in writing all residents or owners of manmade dwellings or structures located within one-half (1/2) mile of the permit area on how to request a preblast survey. Requirements for a preblasting survey shall be the following:

(1) Upon a written request to the Director by a resident or owner of a manmade dwelling or structure that is located within one-half (1/2) mile of the permit area, the operator shall conduct a preblast survey of the dwelling or structure and submit a report of the survey to the Director. If a structure is added to or renovated subsequent to a preblast survey, a survey of such additions and/or renovation shall be performed upon request of the resident or owner.

(2) The operator shall conduct the preblast survey in such a manner which will determine the condition of the dwelling or structure, and to document any preblasting damage and to document other physical factors that could reasonably be affected by the blasting. Assessments of the preblasting condition of structures such as pipes, cables, transmission lines, wells and water systems shall be based on the exterior or ground surface conditions and other readily available data. Special attention shall be given to the preblasting condition of wells and other water systems.

(3) A written report of the survey shall be prepared and signed by the person or persons approved by the Director who conducted the survey. Copies of the report shall be provided to the person requesting the survey and to the Director.

(4) Surveys requested more than ten (10) days before the planned initiation of blasting shall be completed before blasting operations begin.

(5) Any person who requests a survey who disagrees with the results of the survey may submit a detailed description of the specific areas of disagreement.

38-2-7. Premining and Postmining Land Use.

7.1 General. In addition to the requirements of Section 10 of the Act, the following requirements for postmining land use shall be applicable:

(a) All areas disturbed by surface mining operations shall be restored in a timely manner to conditions that are capable of supporting those land uses which they were capable of supporting prior to any mining.

(b) The premining uses of land to which the postmining land use is to be compared shall be those uses which the land previously supported where the land has not been previously mined and has been properly managed.

(c) The appropriate postmining land use for land that has been previously mined and not reclaimed shall be determined on the basis of the land use that existed prior to any mining. If the land cannot be reclaimed to the land use that existed prior to any mining, the appropriate postmining land use shall be determined on the basis of the highest and best use that can be achieved and which is compatible with surrounding undisturbed areas.

(d) The postmining land use for land that has received improper management shall be determined on the basis of the premining use of surrounding lands that have received proper management.

(e) If the premining use of the land was changed within five (5) years of the beginning of mining, the comparison of postmining use to premining use shall include a comparison with the historic use of the land as well as its use immediately preceding mining.

(f) An application for a permit shall contain a narrative description of land capability and productivity which analyzes the premining land-use description required in 22A-3-10(a)(2) of the Act. Productivity shall be determined by yield data or estimates from similar sites based on current data from USDA or state agricultural universities or state agricultural agencies.

7.2 Land Use Categories. Land use is categorized in the following groups:

(a) Heavy Industry. Manufacturing facilities, power plants, airports or similar facilities;

(b) Light Industry and Commercial Services. Office buildings, stores, parking facilities, apartment houses, motels, hotels or similar facilities;

(c) Public Services. Schools, hospitals, churches, libraries, water treatment facilities, solid waste disposal facilities, public parks and recreation facilities, major transmission lines, major pipelines, highways, underground and surface utilities and other servicing structures and appurtenances;

(d) Residential. Single and multiple-family housing (other than apartment houses) with necessary support facilities. Support facilities may include commercial services incorporated in and comprising less than five percent (5%) of the total land area of housing capacity, associated open space and minor vehicle parking and recreation facilities supporting the housing;

(e) Cropland. Land used primarily for the production of cultivated and close-growing crops for harvest alone or in association with sod crops. Land used for facilities in support of farming operations are included;

(f) Rangeland. Includes rangelands and forestlands which support a cover of herbaceous or scrubby vegetation suitable for grazing or browsing use;

(g) Hayland or pasture. Land used primarily for the long-term production of adapted, domesticated forage plants to be grazed by livestock or cut and cured for livestock feed;

(h) Forestland. Land with at least a twenty-five percent (25%) tree canopy or land at least ten percent (10%) stocked by forest trees of any size, including land formerly having had such tree cover and that will be naturally or artificially reforested;

(i) Commercial Woodland. Where forest cover is managed for commercial production of timber products;

(j) Impoundments of water. Land used for storing water for beneficial uses such as stock ponds, irrigation, fire protection, recreation or water supply;

(k) Fish and wildlife habitat and recreation lands. Wetlands, fish and wildlife habitat, and areas managed primarily for fish and wildlife or recreation; or

(1) Combined uses. Any appropriate combination of land uses where one land use is designated as the primary land use and one or more other land uses are designated as secondary land uses.

7.3 Criteria for Approving Alternative Postmining Use of Land.

(a) Changing from one land use category before mining to another category after mining constitutes an alternative postmining land use. An alternative postmining land use may be approved by the Director after consultation with the landowner or the land management agency having jurisdiction over state or federal lands if the following criteria are met:

(1) There is a reasonable likelihood for achievement of the proposed use;

(2) The use does not present any actual or probable hazard to the public health or safety or threat of water diminution or pollution; and

(3) The proposed postmining use is not:

(A) Impractical or unreasonable;

(B) Inconsistent with applicable land use policies or plans;

(C) Going to involve unreasonable delays in implementation; or

(D) In violation of any applicable law.

(b) A change in postmining land use during mining shall be done in accordance with paragraph (a) of this subsection and in accordance with subsection 3.28 of these regulations.

38-2-8. Fish and Wildlife Considerations.

8.1 Protection of Fish, Wildlife and Related Environmental Values.

(a) The operator shall, to the extent possible using the best technology currently available, minimize disturbances and adverse impacts on fish, wildlife, and related environmental values and shall achieve enhancement of such resources where practicable.

(b) No surface mining activity shall be conducted which is likely to jeopardize the continued existence of endangered or threatened species or which are likely to result in the destruction or adverse modification of designated critical habitats of such species in violation of the Endangered Species Act (16 U.S.C. 1531 et seq.). The operator shall promptly report to the Director any State or Federally listed endangered or threatened species within the permit area of which the operator becomes aware. Upon notification, the Director shall consult with appropriate State and Federal fish and wildlife agencies and, after consultation, shall identify whether, and under what conditions, the operator may proceed.

(c) No surface mining activity shall be conducted in a manner which would result in the unlawful taking of a bald or golden eagle, its nest, or any of its eggs. The operator shall promptly report to the Director any golden or bald eagle nest within the permit area of which the operator becomes aware. Upon notification, the Director shall consult with the U. S. Fish and Wildlife Service and also, where appropriate, the State fish and wildlife agency and, after consultation, shall identify whether, and under what conditions the operator may proceed.

(d) Nothing in this chapter shall authorize the taking of an endangered or threatened species or a bald or golden eagle, its nest, or any of its eggs in violation, of the Endangered Species Act of 1973, as amended, 16 U.S.C. 1531 et seq., or the Bald Eagle Protection Act, as amended, 16 U.S.C. 668 et seq.

(e) Each operator shall, to the extent possible using the best technology currently available:

(1) Ensure that electric power lines and other transmission facilities used for, or incidental to, surface mining activities on the permit area are designed and constructed to minimize electrocution hazards to raptors, except where the Director determines that such requirements are unnecessary;

(2) Locate and operate haul and access roads so as to avoid or minimize impacts on important fish and wildlife species or other species protected by State or Federal law;

(3) Design fences, overland conveyors, and other potential barriers to permit passage for large mammals, except where the Director determines that such requirements are unnecessary; and

(4) Fence, cover, or use other appropriate methods to exclude wildlife from ponds which contain hazardous concentrations of toxic-forming materials.

8.2 Habitat Development:

(a) The operator shall avoid disturbances to, enhance where practicable, restore, or replace, wetlands, and riparian vegetation along rivers and streams and bordering ponds and lakes. Surface mining activities shall avoid disturbances to, enhance where practicable, or restore, habitats of unusually high value for fish and wildlife.

(b) Where fish and wildlife habitat is to be a postmining land use, the plant species to be used on reclaimed areas shall be selected on the basis of the following criteria:

(1) Their proven nutritional value for fish or wildlife.

(2) Their use as cover for fish or wildlife.

(3) Their ability to support and enhance fish or wildlife habitat after the release of performance bonds. The selected plants shall be grouped and distributed in a manner which optimizes edge effect, cover, and other benefits to fish and wildlife.

(c) Where cropland is to be the postmining land use, and where appropriate for wildlife and crop-management practices, the operator shall intersperse the fields with trees, hedges, or fence rows throughout the harvested area to break up large blocks of monoculture and to diversify habitat types for birds and other animals.

(d) Where residential, public service, or industrial uses are to be the postmining land use, and where consistent with the approved postmining land use, the operator shall intersperse

reclaimed lands with greenbelts utilizing species of grass, shrubs, and trees useful as food and cover for wildlife.

38-2-9. Revegetation.

9.1 General Requirements.

(a) Each surface mine operator shall establish on all regraded areas and all other disturbed areas a diverse, effective and permanent vegetative cover of the same seasonal variety native to the area of disturbed land, or introduced species that are compatible with the approved postmining land use.

(b) The established vegetative cover shall be capable of stabilizing the soil from erosion.

(c) The established vegetative cover shall be capable of regeneration and plant succession.

(d) Revegetation efforts will be kept concurrent with the mining operation as mining and backfilling progresses and shall be carried out in a manner that encourages a prompt vegetative cover and rapid recovery of productivity levels compatible with the approved postmining land use.

(e) A temporary vegetative cover shall be established as contemporaneously as practicable with backfilling and grading until a permanent vegetative cover can be established. At a minimum, a temporary or permanent vegetative cover shall be established by the end of the first growing season and a permanent vegetative cover shall be established by the end of the second growing season.

9.2. Revegetation Plan. A complete revegetation plan shall be made a part of each permit application. The revegetation plan shall be developed in a manner which is compatible with the following requirements:

(a) Plant species and seed mixtures that will give a quick, permanent vegetative cover and enrich the soil will be given priority. Plant species and seed mixtures shall be considered of the same seasonal variety when they consist of a mixture of species of equal or superior utility as compared with the seasonal utility of naturally-occurring vegetation. All revegetation mixtures must include at least one herbaceous legume species.

(b) All species shall be compatible with the plant and animal species of the region and the approved post mining land use.

(c) All species shall comply with State and Federal seed, poisonous and noxious plant, and introduced species, laws and rules and regulations.

(d) If both the premining and postmining land uses are cropland, planting of the crops normally grown will meet the requirements of paragraph (a) of this subsection.

(e) The revegetation plan shall contain a statement asserting that rills and gullies which form in areas that have been regraded and topsoiled and which disrupt the approved postmining land use, interfere with the reestablishment of the vegetation cover, or cause or contribute to a violation of applicable water quality standards will be filled, regraded, stabilized, topsoiled, and reseeded or replanted.

(f) The revegetation plan shall specify that the operator will rapidly establish temporary vegetation cover on disturbed and regraded areas around sediment control structures, haulage ways, stockpiles, storage areas, and other areas where excessive erosion is likely to occur. Immediate seeding of approved annuals and biennials on such areas shall be considered as a means for achieving temporary vegetative cover only.

(g) A planting plan shall be made a part of the revegetation plan and shall contain the following:

(1) A prediction of the minesoil character based on overburden analysis, soil analysis, and other available information;

(2) The proposed treatment to neutralize acidity;

(3) The method of mechanical seed bed preparation;

(4) The application rates and analysis of fertilization;

(5) The application rates and types of mulch;

(6) The application rates and species of perennial vegetation including herbaceous and woody plants in accordance with the Handbook or other appropriate sources;

(7) The areas to be planted or seeded to trees and shrubs;

(8) The land use objective; and

(9) A maintenance schedule.

(h) Alternative species of trees, shrubs, grasses, legumes, or vines may be substituted for native species if approved by the Director. Use of substitute species may be approved on the basis of the following:

(1) The species are compatible with the plant and animal species of the region and are necessary to and compatible with achieving the approved postmining land use; and

(2) The species meet the requirements of applicable State and Federal seed, poisonous and noxious plant, or introduced species laws and regulations.

(i) The vegetation plan shall contain a plan for soil treatment and amendments which meet the following minimum standards:

(1) 600 lbs/ac of 10-20-10 or 10-20-20 fertilizer. Alternative rates and fertilizer analysis based on soil analysis performed by a qualified soils laboratory may be substituted.

(2) Lime shall be required where soil pH is less than 5.5. Lime rates shall be such that a uniform soil pH of 6.0 will be achieved.

(3) Mulch Specifications: Mulch shall be used on all disturbed areas. Approved materials and minimum rates to be applied are as follows:

Material	Rate/Acre
Straw or hay	1 1/2-2 tons materials may be anchored with asphalt emulsion or other techniques approved by the Director.
Wood Fiber or Wood Cellulose	1,000 lbs.
Shredded Bark	50 cubic yards

Adhesives or tackifiers may be used with wood fiber or wood cellulose at the rates indicated in the following table:

Minimum Rate/Acre for Wood Fiber or Wood Cellulose

Material	Rate/Acre	
Genaqua 743	25 gallons	500 lbs.
Curasol AK or HA	25 gallons	500 lbs.
Aerospray 70	25 gallons	500 lbs.

(j) In implementing the revegetation plan, the operator shall take into consideration the character of the minesoil. Factors to be considered are the following:

(1) Fertility;

(2) Stoniness;

(3) Texture;

(4) Steepness of slope;

(5) Standard field and laboratory overburden analysis; and

(6) Premining overburden analysis.

(k) Minesoils which have a demonstrated history of acidity or other chemical parameters which may limit vegetative success shall be analyzed by a qualified soils laboratory. The results of such analysis shall be made a part of the final planting plan.

9.3. Standards for Evaluating Vegetative Cover.

(a) The planting plan may be amended or modified prior to implementation to reflect the results of analyses of mine soils and to make minor adjustments to application rates and species composition. Any amendments or modifications which reflect major changes in seeding or planting rates and species composition shall be submitted as a permit revision.

(b) Final Planting Report. A final planting plan report shall be submitted to the Director within sixty (60) days after Phase 1 bond reductions. The report shall contain the actual acreage planted, application rates of soil amendments, seed and

seedlings mixtures and rates. Where tree plantings are a part of the revegetation plan, the report may reflect only grasses and legumes with a subsequent and separate report to be filed after the tree plantings are completed during the appropriate planting season.

(c) Time for Inspection. Prior to the recognized spring and fall planting seasons, the operator shall review all areas which were seeded and/or planted during previous planting seasons. The operator shall then cause those areas deficient in vegetative cover to be retreated (graded, seeded, planted, mulched, limed, etc.) to establish the required level of vegetation success.

(d) Not less than two (2) years following the last date of augmented seeding, the Director shall conduct a vegetative inspection to determine that applicable standards for vegetative success have been met. In evaluating vegetative success, the Director shall use a statistically valid sampling technique with a ninety (90) percent statistical confidence interval from the Handbook. An inspection report shall be filed for each inspection and when the standard is met, the Director shall execute a Phase II bond release.

(e) After five (5) growing seasons following the last augmented seeding, planting, fertilization, revegetation, or other work, the operator may request a final inspection and final bond release. Upon receipt of such request, the Director shall conduct a final vegetative evaluation using approved, statistically valid sampling techniques. A final report shall be filed and if the applicable standards have been met, the Director shall release the remainder of the bond. Ground cover, production, or stocking shall be considered equal to the approved success standard when they are not less than 90 (ninety) percent of the success standard.

(f) Where the post mining land use requires legumes and perennial grasses, the operator shall achieve at least a ninety (90) percent ground cover and a productivity level as set forth in the Handbook during any two years of the responsibility period except for the first year. Substandard areas shall not exceed one-fourth (1/4) acre in size nor total more than ten (10) percent of the area seeded. Exceptions to this standard may be authorized by the Director based on the following:

(1) For areas to be developed for industrial or residential use less than two (2) years after regrading is

completed, the ground cover of living plants shall not be less than required to control erosion.

(2) For areas to be used for cropland, the success of crop production from the mined area shall be equal to or greater than that of the approved standard for the crop being grown over last two (2) consecutive growing seasons of the five growing season liability period. The applicable five growing season period of responsibility for revegetation shall commence at the date of initial planting of the crop being grown.

(g) On areas to be developed for forestland and/or wildlife use, success of vegetation shall be determined on the basis of tree and shrub survival and ground cover. Minimum standards for woody plants shall be seventy percent (70%) ground cover of legumes and perennial grasses, and four hundred fifty (450) trees (including volunteer tree species) and/or planted shrubs per acre for the growing season of the last year of the responsibility period.

Substandard areas shall not exceed one-fourth (1/4) acre in size nor total more than twenty percent (20%) of the area seeded or planted. Provided, that where a wildlife planting plan has been approved by a professional wildlife biologist and proposes a stocking rate of less than four hundred fifty (450) trees or shrubs per acre the standard for grasses and legumes shall meet those standards contained in paragraph (f) of this Subsection. At the time of final bond release, at least eighty (80) percent of all trees and shrubs used to determine revegetation success must have been in place for at least sixty (60) percent of the applicable minimum period of responsibility. Trees and shrubs counted in determining such success shall be healthy and shall have been in place for not less than two (2) growing seasons.

(h) Forest resource conservation standards for commercial reforestation operations are as follows:

(1) The area shall have a minimum stocking of six hundred (600) trees per acre;

(2) A minimum of seventy-five percent (75%) of countable trees shall be commercial tree species as reflected in the approved planting plan;

(3) A request for bond release shall be approved by the Director if the tree survival is equal to or greater than four hundred fifty (450) trees per acre and there is seventy

percent (70%) herbaceous cover during the growing season of the last year of the responsibility period; and

(4) At the time of final bond release, at least eighty (80) percent of all trees and shrubs used to determine revegetation success must have been in place for at least sixty (60) percent of the applicable minimum period of responsibility. Trees and shrubs counted in determining such success shall be healthy and shall have been in place for not less than two (2) growing seasons.

38-2-10 Prime Farmlands.

10.1. Identification of Prime Farmlands.

(a) Each permit application shall include the results of a reconnaissance inspection to determine whether or not all or part of the permit area is prime farmland. All or any part of a proposed permit area may be designated by the Director as prime farmland on the basis of a reconnaissance inspection, soil surveys, and other required information submitted as part of a permit application. For the purposes of this Section, said surveys shall mean surveys developed in accordance with standards of the National Cooperative Soil Survey which includes the procedures set forth in the U. S. Department of Agriculture Handbook 436 (Soil Taxonomy) and 18 (Soil Survey).

(b) The requirements for said surveys may be waived by the Director if the applicant can demonstrate that a basis exists for making a negative determination of prime farmland.

10.2. Negative Determination of Prime Farmland.

(a) Land within the proposed permit area shall not be considered as prime farmland where the applicant can demonstrate one or more of the following situations:

(1) No land within the proposed permit boundaries have been historically used for cropland. For purposes of prime farmland determinations, historically used for cropland means:

(A) Lands that have been used for cropland for any five (5) years or more out of the ten (10) years immediately preceding the acquisition, including purchase, lease, or option, of the land for the purpose of conducting or allowing through resale, lease or option the conduct of surface coal mining and reclamation operations;

(B) Lands that the Director determines, on the basis of additional cropland history of the surrounding lands and the lands under consideration, that the permit area is clearly cropland but falls outside the specific five (5) years in ten (10) criterion, in which case the regulations for prime farmland may be applied to include more years to cropland history only to increase the prime farmland acreage to be preserved; or

(C) Lands that would likely have been used as cropland for any five (5) out of the last ten (10) years, immediately preceding such acquisition but for the same fact of

ownership or control of the land unrelated to the productivity of the land.

(2) The slope of all land within the permit area is ten percent (10%) or greater;

(3) Other factors exist, such as a very rocky surface, or the land is frequently flooded during the spring or fall season more often than once in two (2) years, which clearly places all land within the area outside the purview of prime farmland; or

(4) A written determination based on soil surveys and other scientific findings made by a qualified person other than the applicant that land within the proposed mining area does not meet the requirements for prime farmlands. The soil survey shall be of the detail used by the U. S. Soil Conservation Service for operational conservation planning and shall contain at a minimum a description of soil mapping units, pH, soil horizon depths and soil densities.

10.3. Plan for Restoration of Prime Farmland.

(a) The applicant shall propose a plan for the mining and restoration of any prime farmland within the proposed permit area. This plan shall be made a part of the permit application and shall be the basis for determining the technological capability of the applicant to restore prime farmlands. The plan shall include:

(1) A soil survey of the original undisturbed soil profile showing the depth and thickness of each of the soil horizons that collectively constitute the root zone. The soil survey shall be of the detail used by the U. S. Soil Conservation Service for operational conservation planning and shall contain, at a minimum, a description of soil mapping units, pH, soil density, and the depth and thickness of each soil horizon;

(2) The proposed types of equipment and methodology to be used for removal, storage, and replacement of the soil in accordance with subsection 10.4 of this Section;

(3) The location of areas to be used for the separate stockpiling of the soil horizons and plans for soil stabilization before redistribution;

(4) The use of topsoil substitutes may be approved by the Director on the basis of scientific information provided by

the applicant that the substitute material is suitable for the proposed postmining land use. Such information shall be made a part of the permit application;

(5) Plans for seeding and/or planting the regraded area and the conservation practices proposed to control erosion and sedimentation during the first twelve (12) months after regrading is completed;

(6) Scientific data from comparable areas that demonstrate that the applicant will achieve, within a reasonable period of time, equivalent or higher levels of yield after mining as existed before mining; and

(7) Information regarding productivity prior to mining, including the average yield of food, fiber, forage or wood products obtained under a high level of management.

10.4. Special Requirements.

(a) For all proposed mining operations on prime farmlands, the applicant shall meet the following special requirements:

(1) All soil horizons to be used in the reconstruction of the soil shall be removed and stockpiled before drilling, blasting, or mining. Where removal of soil horizons result in erosion that may cause air and water pollution, the application shall specify methods or treatment to control erosion of exposed overburden. The application shall describe procedures to be used to:

(A) Remove separately the entire A horizon or other suitable soil materials which will be used to create a final soil having a greater productive capacity than that which existed prior to mining. Such operations will be carried out in a manner that prevents mixing or contamination with other material before replacement;

(B) Remove separately the B horizon of the natural soil or a combination of B horizon and underlying C horizon or other suitable soil material that will create a reconstructed root zone of greater productive capacity than that which existed prior to mining. Such operations shall be carried out in a manner that prevents mixing or contamination with other material; and

(C) Remove separately the underlying C horizons or other strata, or a combination of such horizons or other

strata to be used instead of the B horizon that are of greater thickness and that can be shown to be more favorable for plant growth than the B horizon, and that when replaced will create in the reconstructed soil a final root zone of greater depth and quality to that which existed in the natural soil.

(b) If stockpiling of soil horizons is necessary, the A horizon and B horizon shall be stored separately from each other. The stockpiles shall be sited within the permit area at a suitable location where they will not be disturbed or exposed to excessive erosion by water or wind before the stockpiled horizons can be redistributed on the regraded surface. Stockpiles in place for more than thirty (30) days shall be protected from erosion.

(c) Soil Replacement.

(1) Soil reconstruction specifications established by the U. S. Soil Conservation Service shall be based upon the standards of the National Cooperative Soil Survey and shall include, as a minimum, physical and chemical characteristics of reconstructed soils and soil descriptions containing soil-horizon depths, soil densities, soil pH, and other specifications such that constructed soils will have the capability of achieving levels of yield equal to, or higher than, those of nonmined prime farmland in the surrounding area.

(2) The minimum depth of soil and substitute soil material to be reconstructed shall be forty-eight (48) inches, or a lesser depth equal to the depth to a subsurface horizon in the natural soil that inhibits or prevents root penetration, or a greater depth if determined necessary to restore the original soil productivity capacity. Soil horizons shall be considered as inhibiting or preventing root penetration if their physical or chemical properties or water-supplying capacities cause them to restrict or prevent penetration by roots of plants common to the vicinity of the permit area and if these properties or capacities have little or no beneficial effect on soil productive capacity.

(3) The operator shall replace and regrade the soil horizons or other root-zone material with proper compaction and uniform depth.

(4) The operator shall replace the B horizon, C horizon, or other approved substitute material to the thickness needed to meet the requirements of subparagraph (2) of paragraph (c) of this subsection.

(5) The operator shall replace the topsoil or other approved substitute materials as the final surface soil layer. This surface soil layer shall equal or exceed the thickness of the original surface soil layer, as determined by the soil survey.

(d) Apply nutrients and soil amendments as needed to establish quick vegetative growth.

(e) In those areas where the B or C horizons were not removed but may have been compacted or otherwise damaged during the mining operation, the operator shall engage in deep tilling or other appropriate means to restore premining capabilities.

10.5. Revegetation. Each person who conducts surface coal mining and reclamation operations on prime farmland shall meet the following revegetation requirements during reclamation:

(a) Following soil replacement, the operator shall establish a vegetative cover of the type and in the manner set forth in the approved permit. Seeding and/or planting shall be accomplished during the next period for favorable planting conditions. Suitable mulch and other soil stabilizing practices shall be used on all areas; and

(b) Within the time period specified in the permit, but not more than ten (10) years after completion of backfilling and rough grading, any portion of the permit area which is prime farmland must be used for crops. The crops may be grown in rotation with hay or pasture crops. The Director may approve the use of perennial plants for hay where this is a common long term use of prime farmland soils in the surrounding area.

10.6 Revegetation and Restoration of Soil Productivity.

(a) Following prime farmland soil replacement, the soil surface shall be stabilized with a vegetative cover or other means that effectively controls soil loss by wind and water erosion.

(b) Prime farmland soil productivity shall be restored in accordance with the following provisions:

(1) Measurement of soil productivity shall be initiated within ten (10) years after completion of soil replacement.

(2) Soil productivity shall be measured on a representative sample or on all of the mined and reclaimed prime farmland area using the reference crop determined under paragraph (b)(6) of this subsection. A statistically valid sampling technique at a ninety (90) percent or greater statistical confidence level shall be used as set forth in the Handbook and in consultation with the U. S. Soil Conservation Service.

(3) The measurement period for determining average annual crop production (yield) shall be a minimum of three (3) crop years prior to release of the performance bond.

(4) The level of management applied during the measurement period shall be the same as the level of management used on nonmined prime farmland in the surrounding area.

(5) Restoration of soil productivity shall be considered achieved when the average yield during the measurement period equals or exceeds the average yield of the reference crop established for the same period for nonmined soils of the same or similar texture or slope phase of the soil series in the surrounding area under equivalent management practices.

(6) The reference crop on which restoration of soil productivity is proven shall be selected from the crops most commonly produced on the surrounding prime farmland. Where row crops are the dominant crops grown on prime farmland in the area, the row crop requiring the greatest rooting depth shall be chosen as one of the reference crops.

(7) Reference crop yields for a given crop season are to be determined from:

(A) The current yield records of representative local farms in the surrounding area, with concurrence by the U. S. Soil Conservation Service; or

(B) The average county yields recognized by the U. S. Department of Agriculture, which have been adjusted by the U. S. Soil Conservation Service for local yield variation within the county that is associated with differences between nonmined prime farmland soil and all other soils that produce the reference crop.

(8) Under either procedure in paragraph (b)(7) of this subsection, the average reference crop yield may be adjusted, with the concurrence of the U. S. Soil Conservation Service, for:

(A) Disease, pest, and weather-induced seasonal variations; or

(B) Differences in specific management practices where the overall management practices of the crops being compared are equivalent.

38-2-11 Insurance and Bonding.

11.1 Insurance.

(a) The applicant shall provide liability insurance for each surface mining and reclamation operation and maintain such insurance throughout the life of the permit or any renewal thereof, and the liability period necessary to complete all reclamation operations, in the following minimum amounts for each surface mining and reclamation operation:

(1) For bodily injury $300,000 for each occurrence and $500,000 aggregate.

(2) For property damage $300,000 for each occurrence and $500,000 aggregate with no exclusions for blasting, landslides, or water loss.

(b) A statement shall be affixed to each certificate of insurance affirming that the insurer will promptly notify the Director of any substantive change in policy including cancellations, termination, or failure to renew.

(c) Insurance coverage for blasting damage may be terminated prior to final bond release but not before blasting activities have ceased provided that the full amount of liability coverage shall continue as required by the Act and these regulations.

11.2 General Requirements For All Bonds.

(a) Prior to issuance of a permit and prior to initiation of surface mining operations, the operator shall provide a bond in accordance with Sections 11 and 12 of the Act and in accordance with this section.

(b) All performance bonds shall provide a mechanism for a bank or surety company to give prompt notice to the Director and the permittee of any action filed alleging the insolvency or bankruptcy of the surety company, the bank, or the permittee; or alleging any violations which would result in suspension or revocation of the surety's license or bank's charter to do business.

(c) Upon incapacity of the bank or surety company by reason of bankruptcy, insolvency, or suspension or revocation of a charter or license, the permittee shall be deemed to be without bond coverage and shall promptly notify the Director.

(d) The Director shall issue a notice of violation against any operator who is without bond coverage. The notice of violation shall specify a period of time to replace bond coverage not to exceed fifteen (15) days. During this period the Director shall conduct weekly inspections to ensure continuing compliance with permit requirements, these regulations and the Act. Such notice of violation, if abated within the specified time period, shall not be counted as a notice of violation for purposes of civil or criminal penalties determining a "pattern of violations" and need not be reported as a past violation in subsequent permit applications. If such a notice of violation is not abated in accordance with the specified time period, a cessation order shall be issued, at which time the operator shall initiate and complete as contemporaneously as possible total reclamation of all disturbed areas. Mining operations shall not resume until the Director has determined that an acceptable bond has been posted.

(e) For bonds and permits which are to be transferred, assigned or sold under the provisions of subsection 3.25 of these regulations and which have significant long-term environmental liabilities the Director may require a showing that either the bond is sufficient to cover the liability or that the assignee has the financial resources and capability to assume the liability.

11.3 Bond Instruments.

(a) Surety bonds shall be subject to the following conditions:

(1) A surety bond shall be executed by the operator and a corporate surety licensed to do business in the State of West Virginia and approved by the Director.

(2) Surety bonds shall be noncancelable during their term except that surety bond coverage may be adjusted in accordance with the provisions of subsection 12.3 of these regulations.

(b) Collateral bonds will be negotiable and guaranteed and subject to the following conditions:

(1) The form of the collateral bond shall be:

(A) Bonds of the United States or its possessions;

(B) Full faith and credit general obligation bonds of the State of West Virginia, or other states, and any county, district municipality of the state of West Virginia or other states;

(C) Certificate of deposit;

(D) Cash;

(E) Real property posted as a collateral bond shall meet the following conditions:

(i) The applicant shall grant the Division of Environmental Protection a first mortgage, first deed of trust, or perfected first-lien security interest in real property with a right to sell or otherwise dispose of the property in the event of forfeiture;

(ii) In order for the Director to evaluate the adequacy of the real property offered to satisfy collateral requirements, the applicant shall submit a schedule of the real property which shall be mortgaged or pledged to secure the obligations under the indemnity agreement. The list shall include: (1) A description of the property; (2) The fair market value as determined by an independent appraisal conducted by a certified appraiser; and (3) Proof of possession and title to the real property; and

(iii) The property may include land which is part of the permit area; however, land pledged as collateral for a bond under this section shall not be disturbed under any permit while it is serving as security.

(F) Whole life insurance policies posted as a collateral bond shall meet the following conditions:

(i) The corporation, partnership, or sole proprietorship applying for the permit shall own the said policy;

(ii) The Director shall obtain possession of and keep in custody all policies assigned by the applicant, until authorized for release or replacement;

(iii) The Director shall, at a minimum, value this collateral at net cash surrender value so as to ensure that such policies, less all penalties and administrative expenses incurred at the time of redemption, shall equal or exceed the amounts of the bond required to be posted;

(iv) The net cash surrender value of the whole life insurance policy shall not exceed $300,000.00;

(v) The Director shall accept only whole life policies which are not interest sensitive and have a guaranteed rate of interest;

(vi) The Director shall require that whole life policies be assigned to the Division of Environmental Protection, in writing, and reflect this assignment upon the books of the company issuing such policies and be recorded by the applicant as required by the Director;

(vii) Upon and during the assignment, such policies shall bear no liens, loans or encumbrances, and none shall become effective without the prior written consent of the Director, with the exception of allowing future dividends distributed to such policies to offset annual premiums, so long as the net cash surrender value meets or exceeds the amounts of the bond required; and

(viii) The Director shall only accept those policies issued by companies licensed to conduct business in the State of West Virginia. Furthermore, such companies shall be member insurers of the West Virginia Life and Health Insurance Guaranty Association and have an independent financial rating by A. M. Best Company of A+ (Superior), Aaa by Moody's Investor Service, or the equivalent.

(G) Letters of credit shall be subject to the following conditions:

(i) The letter may only be issued by a bank organized or authorized to do business in the State of West Virginia;

(ii) Letters of credit shall be irrevocable during their terms. The Director may approve the use of letters of credit as security in accordance with a schedule approved with the permit. Any bank issuing a letter of credit for the purposes of this paragraph shall notify the Director in writing at least ninety (90) days prior to the maturity date of such letter of credit or the expiration of the letter of credit agreement. Letters of credit utilized as securities in areas requiring continuous bond coverage shall be forfeited and collected by the Office of Attorney General, if not replaced by other suitable bond or letter of credit at least thirty (30) days before the expiration date of the letter of credit agreement;

(iii) The letter must be payable to the Division of Environmental Protection in part or in full upon demand and receipt from the Director of a notice of forfeiture;

(iv) The Director shall not accept a letter of credit in excess of ten percent (10%) of the bank's capital surplus account as shown on a balance sheet certified by a certified public accountant;

(v) The Director shall not accept letters of credit from a bank for any person, on all permits held by that person, in excess of three times the company's maximum single obligation as provided by State law;

(vi) The Director shall provide in the indemnity agreement that the amount shall be confessed to judgment upon forfeiture; and

(vii) The bond shall provide that:

(I) The bank will give prompt notice to the permittee and the Director of any notice received or action filed alleging the insolvency or bankruptcy of the bank, or alleging any violations of regulatory requirements which could result in suspension or revocation of the bank's charter of license to do business;

(II) In the event the bank becomes unable to fulfill its obligations under the letter of credit for any reason, notice shall be given immediately to the permittee and the Director; and

(III) Upon the incapacity of a bank by reason of bankruptcy, insolvency or suspension or revocation of its charter or license, the permittee shall be deemed to be without bond coverage in violation of Section 11 and/or Section 12 of the Act. The Director shall issue a notice of violation against any permittee who is without bond coverage. The notice shall specify a reasonable period to replace bond coverage, not to exceed ninety (90) days. During this period the Director shall conduct weekly inspections to ensure continuing compliance with other permit requirements, the regulatory program and the Code of West Virginia. Such notice of violation, if abated within the period allowed, shall not be counted as a notice of violation for purposes of determining a "pattern of willful violations" and need not be reported as a past violation in permit applications. If such a notice of violation is not abated in accordance with the schedule, a cessation order shall be

issued, at which time the operator shall begin and complete, as contemporaneously as possible, total reclamation of the area.

(viii) Persons with an interest in letters of credit posted as a bond, and who desire notification of actions pursuant to the bond, shall request the notification in writing to the Director at the time collateral is offered.

(2) The Director shall obtain possession of and keep in custody all collateral deposited by the applicant, until authorized for release or replacement;

(3) The Director shall require that certificates of deposit be assigned to the Division of Environmental Protection, in writing, and reflect this assignment upon the books of the bank issuing such certificates;

(4) The Director shall not accept an individual certificate for a denomination in excess of maximum insurable amount as determined by F.D.I.C.;

(5) The Director shall require the banks issuing these certificates to waive all rights of setoff or liens which it has or might have against those certificates;

(6) The Director shall only accept certificates of deposit in a bank in this State;

(7) Persons with an interest in collateral posted as a bond, and who desire notification of actions pursuant to the bond, shall request the notification in writing to the Director at the time collateral is offered;

(8) The estimated bond value of all collateral posted as bond assurance under this paragraph shall be subject to a margin which is a ratio of bond value to market value as determined by the Director. This margin shall reflect legal and liquidation fees, as well as value depreciation, marketability and fluctuations which might affect the net cash available to the Director for performing reclamation. The bond value of collateral may be evaluated at any time, but shall be evaluated as part of permit renewal and if necessary the bond value increased or decreased. In no case shall the market value be less than the required bond value; and

(9) For those permits issued prior to January 1, 1993, which have collateral bonds other than these specified in this paragraph, such bond may remain in effect unless they are

determined by the Director to be insufficient or otherwise invalid.

(c) Escrow Bonding.

(1) The Director may authorize the operator to supplement a bonding program through the establishment of an escrow account deposited in one or more federally insured accounts payable on demand only to the Director or deposited with the Director directly. Contributions to the account may be based on acres affected or tons of coal produced or any other rate approved by the Director. In all cases, the total bond including the escrow amount, as determined by the Director in the bonding schedule, shall not be less than the amount required under Sections 11 and 12 of the Act.

(2) Escrow funds deposited in federally insured accounts shall not exceed the maximum insured amount under applicable Federal insurance programs such as by F.D.I.C.

(3) Interest paid on an escrow account shall be retained in the escrow account and applied to the bond value of the escrow account unless the Director has approved that the interest be paid to the operator. In order to qualify for interest payment, the operator shall request such action in writing during the permit application process.

(4) Certificates of deposit may be substituted for escrow accounts upon approval of the Director.

(d) Self-Bonding.

(1) Definitions. For the purposes of this subsection only:

(A) Current assets means cash or other assets or resources which are reasonably expected to be converted to cash or sold or consumed within one (1) year or within the normal operating cycle of the business.

(B) Current liabilities means obligations which are reasonably expected to be paid or liquidated within one (1) year or within the normal operating cycle of the business.

(C) Fixed assets means plants and equipment, but does not include land or coal in place.

(D) Liabilities means obligations to transfer assets or provide services to other entities in the future as a result of past transactions.

(E) Net worth means total assets minus total liabilities and is equivalent to owners equity.

(F) Parent corporation means corporation which owns or controls the applicant.

(G) Tangible net worth means net worth minus intangibles such as goodwill and rights to patents or royalties.

(2) The Director may accept a self-bond from an applicant for a permit if all of the following conditions are met by the applicant or its parent corporation guarantor:

(A) The applicant designates a suitable agent to receive service of process in the state where the proposed surface coal mining operation is to be conducted.

(B) The applicant has been in continuous operation as a business entity for a period of not less than five (5) years. Continuous operation shall mean that business was conducted over a period of five (5) years immediately preceding the time of application.

(i) The Director may allow a joint venture or syndicate with less than five (5) years of continuous operation to qualify under this requirement, if each member of the joint venture or syndicate has been in continuous operation for at least five (5) years immediately preceding the time of application.

(ii) When calculating the period of continuous operation, the Director may exclude past periods of interruption to the operation of the business entity that were beyond the applicant's control and that do not affect the applicant's likelihood of remaining in business during the proposed surface coal mining and reclamation operations.

(C) The applicant submits financial information in sufficient detail to show that the applicant meets one of the following criteria:

(i) The applicant has a current rating for its most recent bond issuance of "A" or higher as issued by

either Moody's Investor Service or Standard and Poor's Corporation;

(ii) The applicant has a tangible net worth of at least ten (10) million dollars, a ratio of total liabilities to net worth of 2.5 times or less, and a ratio of current assets to current liabilities of 1.2 times or greater; or

(iii) The applicant's fixed assets in the United State total at least twenty (20) million dollars, and the applicant has a ratio of total liabilities to net worth of 2.5 times or less, and a ratio of current assets to current liabilities of 1.2 times or greater.

(D) The applicant submits:

(i) Financial statements for the most recently completed fiscal year accompanied by a report prepared by an independent certified public accountant in conformity with generally accepted accounting principles and containing the accountant's audit opinion or review opinion of the financial statements with no adverse opinion;

(ii) Unaudited financial statements for completed quarters in the current fiscal year; and

(iii) Additional unaudited information as requested by the Director.

(3) The Director may accept a written guarantee for an applicant's self-bond from a parent corporation guarantor, if the guarantor meets the conditions of subparts (A) through (D) of subparagraph (2) of this paragraph as if it were the applicant. Such a written guarantee shall be referred to as a "corporate guarantee". The terms of the corporate guarantee shall provide for the following:

(A) If the applicant fails to complete the reclamation plan, the guarantor shall do so or the guarantor shall be liable under the indemnity agreement to provide funds to the Director sufficient to complete the reclamation plan, but not to exceed the bond amount.

(B) The corporate guarantee shall remain in force unless the guarantor sends notice of cancellation by certified mail to the applicant and to the Director at least ninety (90) days in advance of the cancellation date, and the Director accepts the cancellation.

(C) The cancellation may be accepted by the Director if the applicant obtains suitable replacement bond before the cancellation date or if the lands for which the self-bond, or portion thereof, was accepted have not been disturbed.

(4) For the Director to accept an applicant's self-bond, the total amount of the outstanding and proposed self-bonds of the applicant for surface coal mining and reclamation operations shall not exceed twenty-five (25) percent of the applicant's tangible net worth in the United States. For the Director to accept a corporate guarantee, the total amount of the parent corporation guarantor's present and proposed self-bonds and guaranteed self-bonds for surface coal mining and reclamation operations shall not exceed twenty-five (25) percent of the guarantor's tangible net worth in the United States.

(5) If the Director accepts an applicant's self-bond, an indemnity agreement shall be submitted subject to the following requirements:

(A) The indemnity agreement shall be executed by all persons and parties who are to be bound by it, including the parent corporation guarantor, and shall bind each jointly and severally.

(B) The indemnity agreement shall be accompanied by an affidavit certifying that the agreement is valid under all applicable State and Federal laws.

(C) Corporations applying for a self-bond or parent corporations guaranteeing a subsidiary's self-bond shall submit an indemnity agreement signed by two (2) corporate officers who are authorized to bind the corporation. A copy of such authorization shall be provided to the Director. The guarantor shall provide a copy of the corporate authorization demonstrating that the corporation may guarantee the self-bond and execute the indemnity agreement.

(D) If the applicant is a partnership, joint venture or syndicate, the agreement shall bind each partner or party who has a beneficial interest, directly or indirectly, in the applicant.

(E) Pursuant to the bond forfeiture provisions of subsection (b) of Section 17 of the Act, the applicant or parent corporation guarantor shall be required to complete the approved reclamation plan for the lands in default or to pay to the Director an amount necessary to complete the approved reclamation

plan, not to exceed the bond amount. The indemnity agreement when under forfeiture shall operate as a judgment against those parties liable under the indemnity agreement.

(6) The Director may require self-bonded applicants and parent guarantors to submit an update of the information required under subparts (A) through (D) of subparagraph (2) of this paragraph within ninety (90) days after the close of each fiscal year following the issuance of the self-bond or corporate guarantee.

(7) If at any time during the period when a self-bond is posted, the financial conditions of the applicant or the parent corporation guarantor change so that the criteria of subpart (C), subparagraph (2) and subparagraph (4) of this paragraph are not satisfied, the permittee shall notify the Director immediately and shall within ninety (90) days post an alternate form of bond in the same amount as the self-bond.

(e) Combined Surety/Escrow Bonding.

(1) The Director may accept a combined surety/escrow bonding schedule provided that:

(A) A surety bond payable to the Director is posted in the amount determined under Sections 11 and 12 of the Act for reclamation of each successive increment; and

(B) An interest-bearing escrow account, payable to the Director with a predetermined deposit amount and frequency, is established.

(2) Conditions of the combined surety/escrow bonding method shall be as follows:

(A) Surety bond:

(i) The term of the surety bond shall be not less than two (2) years.

(ii) The amount of the surety bond shall always be sufficient to cover the difference between the escrow balance and the total reclamation cost.

(iii) The surety bond may be reduced in amount, but the liability remaining shall depend on the escrow-deposit rate which shall be subject to the requirements of paragraphs (b) and (c) of this subsection.

(iv) The surety bond shall be noncancelable by the surety during the bond term.

(v) Surety bond coverage may be released by the Director without applying the bond-release criteria of the Act and Section 12 of these regulations, at any time during the bond term, provided provisions of subdivision (v), subpart (B), of this subparagraph are met or are in accordance with the provisions of bond replacement under Subsection 12.1 of these regulations.

(vi) The surety bond is subject to the conditions of bond forfeiture including noncompliance with the escrow-account provisions of subpart (B) of this subparagraph.

(B) Escrow account:

(i) The terms and conditions of the escrow account shall be developed jointly by the operator, surety and Director. For the purposes of this section, the development of the escrow account shall be based on a production basis in an amount not less than that required to make the escrow account equal to or greater than the bond requirement within the term of the surety bond as agreed on jointly by the operator, the surety and the Director. Deposits to the escrow account by the operator shall be made monthly and so reported to the Director. Failure to make deposits on schedule shall be just cause for action by the Director.

(ii) A certified escrow-account balance statement shall be provided quarterly to the surety and the Director.

(iii) Provisions of the escrow account shall be in accordance with paragraph (b) of this subsection.

(iv) The escrow account shall be subject to bond-forfeiture.

(v) The escrow account balance shall equal the initial bond amount, plus any adjustments required by subdivision (i) of this subpart, one hundred twenty (120) days prior to surety bond termination, unless the total bond amount required has been previously reduced through the bond-release procedures.

(3) Provisions of the Act and Section 12 of these regulations may be applied to both surety and escrow bond coverage during the bond term.

(4) The surety escrow combination may be repeated successively or amended during the term by replacing the escrow account with a surety bond, and reestablishing the escrow terms and deposit rate, subject to Director approval.

11.4 Incremental Bonding.

(a) When the applicant elects to bond in increments as specified in subsection (a), Section 11, of the Act, the following conditions shall apply:

(1) A performance bond in the appropriate amount shall be filed with the Director for that increment of land within the permit area upon which the operator will initiate and conduct surface mining and reclamation operations. As succeeding increments of surface mining and reclamation operations are to be initiated and conducted within the permit area, the operator shall prior to land disturbance file with the Director and receive approval of an additional bond or bonds in accordance with subsection 11.3 of this section;

(2) Once the operator has chosen to proceed with bonding either the entire permit area or with incremental bonding, he shall continue bonding in that manner for the term of the permit. The minimum amount of bond furnished shall be ten thousand dollars ($10,000);

(3) A cumulative bond schedule shall be submitted to the Director listing the areas covered by the initial bond and for the addition of other acreage as it is affected. Independent increments will be of sufficient size and configurations so as to provide for efficient and contemporaneous reclamation operations. The amount of bond required to obtain a permit shall include the full reclamation cost of the initial area being affected; and

(4) When the applicant elects to "increment" the amount of the performance bond during the term of the permit, he shall indicate the initial and successive incremental disturbed areas on the proposal map and shall specify the proportion of the total bond amount which will be filed prior to commencing operations on each incremental area. The scheduled amount of each performance bond increment shall be filed in the sequence approved in the permit, and shall be filed with the Director at least thirty (30) days prior to the commencement of surface coal

mining and reclamation operations in the subject incremental area.

11.5 Open-Acre Limit Bonding. An applicant for a permit may propose and the Director may, at his discretion, approve the use of open-acre limit bonding for surface extraction operations only. Open-acre limit bonding is a mechanism whereby the operator may bond a designated portion of the total permit area. This acreage and bond amount constitutes the open-acre limit for the subject permit. As initial site development is completed, and initial mining and reclamation progress across the permit area, the limits of the open-acre limit for which bond has been posted will be approached. At this point, the operator will establish and the Director will verify, that portion of the open-acre limit which has been backfilled, regraded, and vegetated in accordance with the approved reclamation plan and the provisions of subsection 14.15 of these regulations. That portion of the acreage which has been satisfactorily reclaimed will be applied to a new portion of the permit area which lies in advance of mining, and a new open-acre limit area of the permit is established. In addition, the applicant will post a fixed rate general bond for the entire permit area and a fixed rate bond for permanent and semi-permanent facilities such as haulroads and sediment control systems. The general bond and the ancillary facility bond will remain in place until released in accordance with subsection 12.2 of these regulations.

(a) Where the applicant elects to use an open-acre limit bond during the term of the permit, he shall first post a general bond in an amount required by subparagraph (1) of this paragraph. In addition, the applicant shall post the open-acre limit bond, and/or ancillary facilities bond, at a rate and amount required in subparagraph (2) of this paragraph.

(1) The general bond will be in the amount of seven hundred fifty dollars ($750) per acre for the entire permit area. The bond will serve as financial assurance that the revegetation requirements of Section 9 of these regulations will be complied with.

(2) The open-acre limit bond per acre rate will be determined pursuant to the provisions of subsection 11.6 of this Section: provided, That haulroads, sediment control systems and other permanent or semi-permanent ancillary facilities will also be bonded at a rate and amount of one thousand dollars ($1,000) per acre for the total proposed disturbed acreage of such ancillary facilities. The open acre amount will be derived by multiplying the per-acre rate established by subsection 11.6 of

this section, by the number of acres proposed in the permit application as the open acre limit: provided, That the minimum amount of open acre limit bond will be ten thousand dollars ($10,000).

(b) Where the applicant elects to use open-acre limit bonding pursuant to this subsection, the permit application will contain a separate bonding section which will include:

(1) An overlay outline map of the permit proposal map which clearly and accurately depicts:

(A) The extent and location of the initial open-acre limit;

(B) The extent and location of the remaining permit area for which no initial bond is to be posted;

(C) The extent and location of all permanent or semi-permanent ancillary facilities; and

(D) A legend which identifies each area and lists the respective acreage and amount of bond.

(2) A description of the bonding instruments to be used for the general bond, the open-acre limit bond, and the ancillary facilities bond.

(3) A narrative description consistent with the reclamation plan for the timing and sequence of initial site development, progression of land disturbance, and progression of reclamation.

(c) At the time at which the operator or the Director determines that the progress of mining and reclamation is approaching the full disturbance of the initial or succeeding open-acre limit, the operator is required to submit a request to advance the open-acre limit into the undisturbed portions of the permit area by an amount of acreage not to exceed the acreage reclaimed within the existing open-acre limit area. Such request will be made on forms prescribed by the Director and accompanied by the following:

(1) An overlay map of the same type and description required in subparagraph (1), paragraph (b) of this subsection depicting the area within the existing open-acre limit on which reclamation is completed, and the undisturbed area within the

permit boundary to which the reclaimed portion is to be transferred.

(2) A copy of the bond release advertisement required by Section 23 of the Act and subsection 12.2 of these regulations.

(d) The request for transfer of the open-acre limit bond is subject to approval in writing by the Director. Such approval may not be granted until a review of the site is made by the Director and the information in the transfer request is verified.

(e) At the time of completion of all mining and reclamation on the permit area, the operator will apply for bond release in the same manner as described in Section 23 of the Act and subsection 12.2 of these regulations.

11.6 Site Specific Bonding.

(a) Applicability. After the effective date of this subsection, the four major categories of mining identified in paragraph (b) of this subsection shall be subject to the site specific bonding requirements of Section 12 of the Act and this subsection. The site specific bond amount for a permit in any of these categories will be determined based on criteria set forth in this subsection, and as calculated from the tables set forth in paragraphs (c), (d), (e) and (f) of this subsection. Separate permits for ancillary activities, i.e., haulroads, load outs, railroad spurs and sidings, etc., will post bond in the amount prescribed in Section 11 of the Act: provided, That where such activities are incorporated into a permit application for one of the four major categories, the site specific bond rate provided for herein will apply; provided, however, that the bond required shall in no case be less than one thousand dollars ($1,000), nor more than five thousand dollars ($5,000) per acre or fraction thereof.

Where a permit application includes two or more of the four major mining categories, the application will delineate the proposed disturbed acres for each category and the site specific per acre bond amount for each category will be calculated in accordance with the provisions of this subsection as if it were a separate permit and the respective bond amount shall be posted for each area of proposed disturbance in that category.

Where active or inactive operations are in compliance with the provisions of subsection 14.15 of these regulations and coal extraction operations are completed, or nearly completed, or when

the operations are eligible for or have received Phase I bond release, the site specific bond criteria of this subsection shall not apply.

After January 1, 1994, all existing permits for surface mining operations in the four major categories set forth in paragraph (b) of this subsection shall be reviewed by the Director and a determination made as to whether or not the surface mining operations are subject to the site specific bonding criteria set forth herein. The determinations shall be made in accordance with the following:

(1) Existing permits in the **four** major ~~category~~ **categories** ~~"surface mines"~~, described in paragraph (b) of this subsection shall be reviewed by the Director at the time of renewal or mid-term review, whichever occurs first, and a determination made as to the adequacy of existing bond~~.~~ **and shall not be renewed by the Director until the appropriate amount of bond has been posted.** The existing bond may be determined to be adequate only if all the following criteria are met:

(A) The operation is active at the time of application for renewal or mid-term review, whichever occurs first.

(B) An approved mining and reclamation plan which is in accordance with the requirements of subsection 14.15 of these regulations has been made a part of the permit, or has been submitted as a permit revision and is pending approval.

(C) The operation is in compliance with the requirements of subsection 14.15 of these regulations.

(D) The operation is not under a cessation order or show cause order.

(E) There are not delinquent civil penalties associated with the permit.

Where the operation has an approved inactive status, it shall be subject to the site specific bond criteria of this subsection at the time of permit renewal or mid-term review, whichever occurs first, and shall not be renewed by the Director until the appropriate amount of bond has been posted.

~~(2) Existing permits, whether active or inactive, in the major category "underground mines" described in paragraph (b) of this subsection, shall be subject to the site specific bond criteria of this subsection at the time of application for~~

~~renewal or at mid-term review, whichever occurs first, and shall not be renewed by the Director until the appropriate amount of bond has been posted.~~

~~(3) Existing permits, whether active or inactive, in the major category "preparation plants" described in paragraph (b) of this subsection shall be subject to the site specific bond criteria of this subsection at the time of application for renewal or at mid-term review, whichever occurs first, and shall not be renewed by the Director until the appropriate amount of bond is posted.~~

~~(4) Existing permits, whether active or inactive, in the major category "coal refuse sites" described in paragraph (b) of this subsection shall be subject to the site specific bond criteria of this subsection at the time of application for renewal or mid-term review, whichever occurs first, and shall not be renewed by the Director until the appropriate amount of bond is posted.~~

(b) The four major categories of mining permits subject to the provisions of this subsection are surface mines, underground mines, coal refuse disposal sites, and coal preparation plants. The tables in paragraphs (c), (d), (e), and (f) of this subsection display in matrix form the major criteria which influence the level of difficulty in achieving reclamation for the specific mining permit category. These include but are not limited to the following factors:

(1) Cost factors which will be encountered in mine land reclamation of a forfeited site;

(2) The risk of bond forfeiture incurred by the State;

(3) Operator's history of performance; and

(4) Environmental enhancement potential which may mitigate reclamation cost.

These are shown on the "x" axis of the matrix. Each of these criteria have been assigned a numerical criteria value for calculating the site specific per acre bond amount. The sum of the criteria values do not exceed 5,000, which is the maximum per acre dollar amount of the bond provided for in the Act.

Under each major criteria are listed two or more sub-criteria. These sub-criteria represent readily identifiable and quantifiable elements of a permit application. Each sub-criteria

is assigned a numerical constant which when summed equals the numerical value of their respective criteria.

In order to determine the appropriate site specific bond amount for a specific permit, each sub-criteria constant is multiplied by a conversion factor which is displayed on the "y" axis of the matrix. The value of the conversion factors reflects a quantifiable element of the sub-criteria which influences the level of consideration each element must be given in determining reclamation costs or risk. The sum of the converted constants will be the total per acre bond amount for a specific permit.

(c) Surface Mines. Table 1 displays the criteria, sub-criteria, and conversion factors for the surface mines category to be applied as follows:

(1) The criteria of excess spoil disposal is assigned a maximum criteria value of 1000 subject to the following sub-criteria constants:

(A) The type of excess spoil disposal fill is assigned a sub-criteria constant of 800 subject to the following conversion factors:

(i) Excess spoil disposal on existing solid benches created by previous mining operations is assigned a conversion factor of 0.2.

(ii) Excess spoil disposal on natural slopes (side hill fills) utilizing controlled placement technology or in valleys where controlled placement and chimney rock core construction is employed, is assigned a conversion factor of 0.6.

(iii) Excess spoil disposal in valleys where single lift durable rock construction is employed is assigned a conversion factor of 1.0.

(B) Where one or more excess spoil disposal fills are proposed, a sub-criteria constant of 200 is assigned subject to the following conversion factors: provided, That were two or more fills of different types are involved, the highest conversion factor will be applied for all fills.

(i) Two or less fills proposed in a single permit application is assigned a conversion factor of 0.2.

(ii) Two to six fills proposed for a single permit application is assigned a conversion factor of 0.5.

(iii) More than six fills proposed on a single permit application is assigned a conversion factor of 1.0.

(2) The mining plan contained in the permit application is assigned a maximum criteria value of 1000 subject to the following sub-criteria constants:

(A) The type of surface mining operation proposed in the mining plan is assigned a sub-criteria constant of 500, subject to the following conversion factors:

(i) Where the mining plan reflects that the mining operation is predominantly of the area mining type (level or gently rolling terrain), a conversion factor of 0.2 is assigned;

(ii) Where the mining plan reflects that the mining operation is predominantly of the contour strip type (on both steep and non-steep slopes), a conversion factor of 0.6 is assigned; and

(iii) Where the mining plan reflects that the mining operation is on steep slopes and is predominantly of the mountaintop removal type (with or without a variance from approximate original contour), a conversion factor of 1.0 is assigned.

(B) A mining plan which reflects that multiple coal seams are to be mined is assigned a sub-criteria constant of 300 subject to the following conversion factors. Splits of the same coal seam will not be considered separate seams unless the partings between the splits are on the average greater than ten feet.

(i) Where the mining plan reflects that no more than two seams of coal are to be mined, a conversion factor of 0.2 is assigned.

(ii) Where the mining plan reflects that two to four seams of coal or splits of the same seam are proposed to be mined, a conversion factor of 0.6 is assigned.

(iii) Where the mining plan reflects that more than four coal seams or splits of the same seams are proposed to be mined, a conversion factor of 1.0 is assigned.

(C) Where the mining plan proposed that augering of the coal is proposed, a sub-criteria constant of 200 is assigned subject to the following conversion factors:

(i) Where the mining plan reflects that twenty-five percent or less of the total lineal feet of coal outcrop for all seams or of any single seam is to be augered, a conversion factor of 0.2 is assigned;

(ii) Where the mining plan reflects that more than twenty-five percent of the total lineal feet of coal outcrop for all seams or of any single seam is to be augered by conventional screw-type augers, a conversion factor of 0.6 is assigned; and

(iii) Where the mining plan reflects that highwall mining is the augering method of choice, a conversion factor of 1.0 is assigned.

(3) The topographic, geologic, and hydrologic criteria associated with the proposed permit application is assigned a maximum criteria value of 800, subject to the following sub-criteria constants:

(A) Where the nature of the geology associated with the proposed permit area requires overburden analysis (acid/base accounting) in accordance with subparagraphs (2) and (6), paragraph (f), subsection 3.23 of these regulations, a sub-criteria constant of 400 is assigned, subject to the following conversion factors:

(i) Where, from the results of overburden analysis, a volume-weighted acid base balance calculation shows that the overburden on the proposed disturbed area contains a net excess calcium carbonate equivalent of greater than 20 tons per thousand tons of overburden, a conversion factor of 0.2 is assigned;

(ii) Where, from the results of overburden analysis, a volume-weighted acid base balance calculation shows that the overburden on the proposed disturbed area contains a net excess calcium carbonate equivalent of 10 to 20 tons per thousand tons of overburden, a conversion factor of 0.6 is assigned; and

(iii) Where, from the results of overburden analysis, a volume-weighted acid base balance calculation shows that the overburden on the proposed disturbed area contains a net excess calcium carbonate equivalent of less than 10 tons per

thousand tons of overburden or a net calcium carbonate deficiency, a conversion factor of 1.0 is assigned.

(B) The average steepness of slopes on the proposed permit area is assigned a sub-criteria constant of 200 subject to the following conversion factors:

(i) Where the average slope of the proposed permit area is less than twenty percent (20%), a conversion factor of 0.2 is assigned: provided, That except for downslope placement of first cut material, where the mining plan reflects area mining or mountaintop removal utilizing excess spoil disposal sites, a conversion factor of 1.0 is assigned;

(ii) Where the average slope of the proposed permit area is between twenty (20) to forty (40) percent, a conversion factor of 0.6 is assigned: provided, That where the mining plan reflects area mining or mountaintop removal utilizing excess spoil disposal sites, a conversion factor of 1.0 is assigned; and

(iii) Where the average slope of the proposed permit area is greater than forty percent (40%), a conversion factor of 1.0 is assigned.

(C) The overburden type, based on percent of total volume of overburden to be removed from the coal seam(s), is assigned a sub-criteria constant of 200, subject to the following conversion factors:

(i) Where the overburden mass consists of less than twenty percent (20%) by volume sandstone or other highly abrasive spoil material, a conversion factor of 0.2 is assigned;

(ii) Where the overburden mass consists of between twenty to sixty percent (20% - 60%) by volume sandstone or other highly abrasive spoil material, a conversion factor of 0.6 is assigned; and

(iii) Where the overburden mass consists of greater than sixty percent (60%) by volume sandstone or other highly abrasive spoil material, a conversion factor of 1.0 is assigned.

(4) The overall reclamation plan contained in the proposed permit application (based on size, sequence, and timing

of the proposed operation) is assigned a maximum criteria value of 1200 subject to the following sub-criteria constants:

(A) The mining and reclamation sequence reflected in the proposed reclamation plan governing the expediency of achieving contemporaneous reclamation is assigned a sub-criteria constant of 600 subject to the following conversion factors:

(i) Where the proposed reclamation plan contains specific time and distance criteria which clearly identify achievable mile posts to be reached during the life of the operation, a conversion factor of 0.2 is assigned: provided, That mountaintop removal and multiple seam contour mining operations utilizing single lift durable rock excess spoil fills are assigned a conversion factor of 1.0;

(ii) Where the proposed reclamation plan contains specific time and distance criteria in an incremental bond or open-acre limit bond scenario without clearly identified achievable mile posts to be reached during the life of the operation, a conversion factor of 0.6 is assigned: provided, That mountaintop removal and multiple seam contour mining operations utilizing single lift durable rock excess spoil disposal fills, are assigned a conversion factor of 1.0; and

(iii) Where the proposed reclamation plan contains time and distance criteria expressed as percentages, or where such criteria are vague, a conversion factor of 1.0 is assigned.

(B) The size of the proposed permit area in acres disturbed is assigned a sub-criteria constant of 400, subject to the following conversion factors:

(i) Where the total proposed disturbed area is less than 200 acres, a conversion factor of 0.2 is assigned;

(ii) Where the total proposed disturbed area is 200 to 500 acres, a conversion factor of 0.6 is assigned; and

(iii) Where the total proposed disturbed area is greater than 500 acres, a conversion factor of 1.0 is assigned.

(C) The type, size, numbers, and configuration of earth-moving equipment as specified in the reclamation plan is assigned a sub-criteria value of 200, subject to the following conversion factors:

(i) Where the equipment spread(s) identified in the reclamation plan consists only of trucks, loaders, and/or dozers, and/or power shovels or draglines with bucket capacity of less than 20 cubic yards, a conversion factor of 0.2 is assigned;

(ii) Where the equipment spread(s) identified in the reclamation plan includes the use of power shovels with a bucket capacity of 20 cubic yards or greater, a conversion factor of 0.6 is assigned; and

(iii) Where the equipment spread(s) identified in the reclamation plan includes the use of one or more draglines with a bucket capacity of 20 cubic yards or greater, a conversion factor of 1.0 is assigned.

(5) The historical performance of the applicant in terms of level of performance of mining and reclamation activities in accordance with State law is assigned a maximum criteria value of 1000, subject to the following sub-criteria constants:

(A) The violation history in West Virginia of the applicant based on the average number of cessation orders and/or notices of violations with a seriousness rating of greater than 4 for all active permits held by the applicant, is assigned a sub-criteria constant of 600, subject to the following conversion factors: provided, That the violation history period includes the last full calendar year prior to the date an SMA is issued; provided, however, That when the applicant has no record of performance in the state, a conversion factor of 1.0 is assigned:

(i) Where the average of the number of notices of violation and cessation orders per active permit is less than 3, a conversion factor of 0.2 is assigned;

(ii) Where the average of the number of notices of violation and cessation orders per active permit is 3 to 5, a conversion factor of 0.6 is assigned; and

(iii) Where the average of the number of notices of violations and cessation orders per active permit is greater than 5, a conversion factor of 1.0 is assigned.

(B) The status of all active permits held by the applicant in West Virginia based on compliance with the law and these regulations, and compliance with the permits' reclamation plan during the public notice period, is assigned a sub-criteria

constant of 400, subject to the following conversion factors: provided, That when the applicant holds no other permits in the state, a conversion factor of 1.0 is assigned:

(i) Where status of full compliance (no notices of violation issued) with the law, these regulations, and the reclamation plan, and one hundred percent (100%) contemporaneous reclamation exists during the public notice period for the subject application, a conversion factor of 0.2 is assigned;

(ii) Where status of compliance with the law and these regulations (no negligence on the part of the operator in abatement action on notices of violation), and ninety percent (90%) contemporaneous reclamation, a conversion factor of 0.6 is assigned; and

(iii) A status of basic compliance with the law and these regulations (negligence on the part of the operator in abatement action for notices of violation) and seventy percent (70%) contemporaneous reclamation, a conversion factor of 1.0 is assigned.

(6) Where the applicant has demonstrated success in conducting mining and reclamation operations in such a manner that environmental resources have been extraordinarily enhanced, a bond reduction credit expressed as a negative criteria value of -1800 is assigned.

(A) Where the applicant has successfully carried out remining operations within five (5) years of the date of SMA approval, a sub-criteria constant of -800 is assigned, subject to the following conversion factors:

(i) Where the remining operation(s) have complied with the reclamation plan, but did not result in the total elimination of highwalls, and did not result in an improvement in water quality, the conversion factor of 0.2 is assigned;

(ii) Where the remining operation(s) have complied with the reclamation plan and have resulted in total elimination of highwalls and/or improved water quality, a conversion factor of 0.6 is assigned; and

(iii) Where the remining operation(s) have complied with the reclamation plan and have resulted in total

highwall elimination and water quality meets effluent limits and water quality standards, a conversion factor of 1.0 is assigned.

(B) Where the applicant has received recognition for excellence in reclamation through local and/or national awards, from awards programs sanctioned by a regulatory authority as defined in Public Law (95-87) within five (5) years of the date of SMA approval, a sub-criteria constant of -600 is assigned, subject to the following conversion factors:

(i) Where the applicant has received one local award but no national awards, a conversion factor of 0.2 is assigned;

(ii) Where the applicant has received more than one local award but no national awards, a conversion factor of 0.6 is assigned; and

(iii) Where the applicant has received both local and national awards, a conversion factor of 1.0 is assigned.

(C) Where the applicant has demonstrated a history of restoration, development, or enhancement of wetlands in the State within five (5) years of the date of SMA approval, a sub-criteria constant of -400 is assigned, subject to the following conversion factors:

(i) Where the total cumulative area of wetlands restored, developed, or improved is less than one acre, a conversion factor of 0.2 is assigned;

(ii) Where the total cumulative area of wetlands restored, developed, or enhanced is between 1 and 5 acres, a conversion factor of 0.6 is assigned; and

(iii) Where the total cumulative area of wetlands restored, developed, or enhanced is greater than 5 acres, a conversion factor of 1.0 is assigned.

		0.2	0.6	1.0
EXCESS SPOIL	**1000**			
Type of Fill	800	Existing Bench _____	Side Hill/Conventional _____	Single Lift _____
Multiple Fills	200	Two or less _____	Two to Six _____	More Than Six _____
MINING PLAN	**1000**			
Operation Type	500	Area Mining _____	Contour Strip _____	Mountaintop _____
Multiple Seams	300	Two or Less _____	Two to Four _____	More Than Four _____
Augering	200	< 25% of Outcrop _____	> 25% & Conv. Auger _____	Highwall _____
TOPO/GEO/WATER QUALITY	**800**			
Overburden Analysis	400	> 20 T $CaCO_3$/Thou T _____	10-20 T $CaCO_3$/Thou T _____	<10 T $CaCO_3$/Thou T _____
Slopes	200	Less Than 20% _____	20% To 40% _____	Over 40% _____
Overburden Type	200	< 20% Sandstone _____	20%-60% Sandstone _____	> 60% Sandstone _____
RECLAMATION PLAN	**1200**			
Mining/Rec. Sequence	600	Specific Time/Dist. _____	Spec. T/D Open Acres _____	% Open Acres _____
Permit Acreage	400	Less Than 200 _____	200 To 500 _____	More Than 500 _____
Equipment Spread	200	Loader/Dozer/Truck _____	Shovel/Dozer/Truck _____	Drag/Dozer/Truck _____
OPERATOR PERFORMANCE	**1000**			
Violation History	600	Avg.<3 Viol/Permit _____	3 To 5 Viol/Permit _____	>5 Viol/Permit _____
Status Existing Oper.	400	Full Comp.100% Cur. _____	Comp. 90% Cur _____	Basic Comp 70% Cur _____
ENVIRONMENTAL ENHAN.	**-1800**			
Remining	-800	W/O Highwall El. _____	Highwall Elim. _____	High El/Wat Qual _____
Reclamation Awards	-600	One Local _____	>1 Local _____	Local & National _____
Wetlands	-400	<1 Acre _____	1 To 5 Acres _____	>5 Acres _____
SUBTOTALS				

TABLE 1 SURFACE MINES

TOTAL BOND AMOUNT $_____ / ACRE

(d) Underground Mines. Table 2 displays the criteria, sub-criteria, and conversion factors for the category of underground mines to be applied as follows:

(1) The criteria of availability of backfill material to be used to backfill the mine face-up area and eliminate highwalls, is assigned a maximum criteria value of 1200, subject to the following sub-criteria constants:

(A) The haulage distance in miles from the portal area to the stockpiled or otherwise available backfilling material (such as borrow pits) is assigned a sub-criteria constant of 600, subject to the following conversion factors: provided, That for underground mines which involve slopes or vertical shafts as main portals, a conversion factor of 1.0 is assigned:

(i) Where the backfill material is less than one-fourth mile from the portal area, a conversion factor of 0.2 is assigned;

(ii) Where the backfill material is between one-fourth and one-half mile from the portal area, a conversion factor of 0.6 is assigned; and

(iii) Where the backfill material is over one-half mile from the portal area, a conversion factor of 1.0 is assigned.

(B) The volume of backfilling material, measured in cubic yards, which must be transported from the storage or borrow area to the face-up area in order to achieve reclamation, is assigned a sub-criteria constant of 400, subject to the following conversion factors: provided, That for underground mines which involve slopes or vertical shafts as main portals, a conversion factor of 1.0 is assigned.

(i) Where the amount of material necessary to backfill and reclaim the face-up area is less than one hundred thousand cubic yards, a conversion factor of 0.2 is assigned;

(ii) Where the amount of material necessary to backfill and reclaim the face-up area is between one hundred and two hundred fifty thousand cubic yards, a conversion factor of 0.6 is assigned; and

(iii) Where the amount of material necessary to backfill and reclaim the face-up area is over two hundred fifty thousand cubic yards, a conversion factor of 1.0 is assigned.

(C) The topographic location of the stockpiled or otherwise available backfill material relative to the coal seam being mined is assigned a sub-criteria constant of 200, subject to the following conversion factors: provided, That underground mines which involve slopes or vertical shafts as main portals, a conversion factor of 1.0 is assigned:

(i) Where the available backfill material is located above the coal seam, a conversion factor of 0.2 is assigned;

(ii) Where the available backfill material is located at the same level as the coal seam being mined, a conversion factor of 0.6 is assigned; and

(iii) Where the available backfill material is located below the coal seam being mined, a conversion factor of 1.0 is assigned.

(2) The topographic, geologic, and hydrologic features of the proposed mine site are assigned a maximum criteria value of 1200, subject to the following sub-criteria constants:

(A) The acid/base accounting analysis of the coal seam to be mined, including four feet of material above and four feet of material below the coal seam, is assigned a sub-criteria constant of 600, subject to the following conversion factors:

(i) Where, as determined from the results of an acid/base balance calculation, the coal seam and associated strata have a net excess calcium carbonate equivalent of greater than twenty tons per thousand tons of material, a conversion factor of 0.2 is assigned;

(ii) Where, as determined from the results of an acid/base balance calculation, the coal seam and associated strata have a net excess calcium carbonate equivalent of between ten and twenty tons per thousand tons of material, a conversion factor of 0.6 is assigned; and

(iii) Where, as determined from the results of an acid/base balance calculation, the coal seam and associated strata have a net excess calcium carbonate equivalent of less

than ten tons per thousand tons of material or a net calcium carbonate deficiency, a conversion factor of 1.0 is assigned.

(B) The average steepness of slopes on the proposed permit area is assigned a sub-criteria constant of 400, subject to the following conversion factors: provided, That for underground mines which involve slopes or vertical shafts as main portals, a conversion factor of 1.0 is assigned:

(i) Where the average slope of the proposed permit area is less than twenty percent (20%), a conversion factor of 0.2 is assigned;

(ii) Where the average slope of the proposed permit area is between twenty (20) to forty (40) percent, a conversion factor of 0.6 is assigned; and

(iii) Where the average slope of the proposed permit area is greater than forty percent (40%), a conversion factor of 1.0 is assigned.

(C) The type of backfilling material which must be handled in order to backfill and reclaim the face-up area is assigned a sub-criteria constant of 200, subject to the following conversion factors:

(i) Where the backfilling material consists of less than twenty percent (20%) sandstone or other abrasive material, a conversion factor of 0.2 is assigned;

(ii) Where the backfilling material consists of between twenty and sixty percent (20% and 60%) sandstone or other abrasive material, a conversion factor of 0.6 is assigned; and

(iii) Where the backfilling material consists of greater than sixty percent (60%) sandstone or other abrasive material, a conversion factor of 1.0 is assigned.

(3) The overall reclamation plan contained in the proposed permit application is assigned a maximum criteria value of 1200, subject to the following sub-criteria constants:

(A) The size of the proposed permit area in acres disturbed is assigned a sub-criteria value of 800, subject to the following conversion factors:

(i) Where the proposed disturbed area is less than three acres, a conversion factor of 0.2 is assigned;

(ii) Where the proposed disturbed area is between three and ten acres, a conversion factor of 0.6 is assigned; and

(iii) Where the proposed disturbed area is greater than ten acres, a conversion factor of 1.0 is assigned.

(B) The mining and reclamation sequence expressed in terms of the time in years to complete mining and reclamation is assigned a sub-criteria constant of 400, subject to the following conversion factors:

(i) Where the proposed time required to complete mining and reclamation is less than three years, a conversion factor of 0.2 is assigned;

(ii) Where the proposed time required to complete mining and reclamation is between three and ten years, a conversion factor of 0.6 is assigned; and

(iii) Where the proposed time required to complete mining and reclamation is greater than ten years, a conversion factor of 1.0 is assigned.

(4) Coal preparation plants, coal refuse disposal sites, and other associated ancillary facilities which are proposed for construction as part of the proposed application for underground mines is assigned a maximum criteria value of 800.

(A) A coal preparation plant is assigned a sub-criteria constant of 400, subject to the following conversion factors:

(i) Where the facility has a maximum capacity of processing less than 200 tons of raw coal per hour, a conversion factor of 0.2 is assigned;

(ii) Where the facility has a maximum capacity of processing between 200 and 500 tons of raw coal per hour, a conversion factor of 0.6 is assigned; and

(iii) Where the facility has a maximum capacity of processing greater than 500 tons of raw coal per hour, a conversion factor of 1.0 is assigned.

(B) The size in acres of a proposed coal refuse disposal site is assigned a sub-criteria constant of 400, subject to the following conversion factors:

(i) Where the size of the proposed coal refuse disposal site is five acres or less, a conversion factor of 0.2 is assigned;

(ii) Where the size of the coal refuse disposal site is between five and ten acres, a conversion factor of 0.6 is assigned; and

(iii) Where the size of the proposed coal refuse disposal site is greater than ten acres, a conversion factor of 1.0 is assigned.

(5) The historical performance of the applicant in terms of level of performance of mining and reclamation activities in accordance with state law is assigned a maximum criteria value of 600, subject to the following sub-criteria constants:

(A) The violation history in West Virginia of the applicant based on the average number of cessation orders and/or notices of violation with a seriousness rating of greater than 4, and any cessation order for all active permits, is assigned sub-criteria constant of 400, subject to the following conversion factors: provided, That the violation history period includes the last full calendar year prior to the date an SMA is issued; provided, however, That when the applicant has no record of performance in the state, a conversion factor of 1.0 is assigned:

(i) Where the average number of notices of violation and cessation orders per active permit is less than 3, a conversion factor of 0.2 is assigned;

(ii) Where the average number of notices of violation and cessation orders per active permit is between 3 and 5, a conversion factor of 0.6 is assigned; and

(iii) Where the average number of notices of violation and cessation orders per active permit is greater than 5, a conversion factor of 1.0 is assigned.

(B) The status of all active permits held by the applicant in West Virginia, based on compliance with the law and these regulations, and compliance with the permits reclamation plan during the public notice period for the subject proposed

application is assigned a sub-criteria constant of 200, subject to the following conversion factors; provided, That where the applicant holds no other permits in the state a conversion factor of 1.0 is assigned:

(i) Where a status of full compliance (no notices of violation are issued) with the law, these regulations, and the reclamation plan and one hundred percent (100%) contemporaneous reclamation exists, a conversion factor of 0.2 is assigned;

(ii) Where a status of compliance with the law and these regulations (no negligence on the part of the operator in abatement action on outstanding notices of violation) and ninety percent (90%) contemporaneous reclamation exists, a conversion factor of 0.6 is assigned; and

(iii) Where a status of basic compliance exists with the law and these regulations (negligence on the part of the operator in abatement action for outstanding notices of violation) and seventy percent (70%) contemporaneous reclamation exists, a conversion factor of 1.0 is assigned.

(6) Where the applicant has demonstrated success in conducting mining and reclamation operations in such a manner that environmental resources have been extraordinarily enhanced, a bond reduction credit, expressed as a negative criteria value, of -1000 is assigned, subject to the following sub-criteria constants:

(A) Gratuitous reclamation or restoration of abandoned coal mining areas by the applicant, as part of a surface or underground mining operation under permit by the applicant within five (5) years of the date of SMA approval is assigned a sub-criteria constant of -600, subject to the following conversion factors:

(i) Where the cumulative area of gratuitous reclamation is less than one acre, a conversion factor of 0.2 is assigned;

(ii) Where the cumulative area of gratuitous reclamation is between one and five acres, a conversion factor of 0.6 is assigned; and

(iii) Where the cumulative area of gratuitous reclamation is greater than five acres, a conversion factor of 1.0 is assigned.

(B) Where the applicant has received recognition for excellence in reclamation through local and/or national awards from awards programs sanctioned by any regulatory authority as defined in Public Law 95-87 within five (5) years of the date of SMA approval, a sub-criteria constant of -400 is assigned, subject to the following conversion factors:

(i) Where the applicant has received one local award, but no national awards, a conversion factor of 0.2 is assigned;

(ii) Where the applicant has received more than one local award, but no national awards, a conversion factor of 0.6 is assigned; and

(iii) Where the applicant has received both local and national awards, a conversion factor of 1.0 is assigned.

(C) Where the applicant has demonstrated a history of restoration, development, or enhancement of wetlands within five (5) years of the date of SMA approval, a sub-criteria constant of -200 is assigned, subject to the following conversion factors:

(i) Where the cumulative area of wetlands which have been restored, developed, or enhanced is less than one acre, a conversion factor of 0.2 is assigned;

(ii) Where the cumulative area of wetlands which have been restored, developed, or enhanced is between one and five acres, a conversion factor of 0.6 is assigned; and

(iii) Where the cumulative area of wetlands which have been restored, developed, or enhanced is greater than five acres, a conversion factor of 1.0 is assigned.

		0.2		0.6		1.0	
AVAILABILITY OF BACKFILL	**1200**						
Distance From Portals	600	< 1/4 Mile	_____	1/4 Mile - 1/2 Mile	_____	> 1/2 Mile	_____
Volume of Material	400	< 100 Thou. Cu Yd	_____	100-250 Thou. Cu Yd	_____	> 250 Thou. Cu YD	_____
Relative To Outcrop	200	Above Outcrop	_____	On The Outcrop	_____	Below The Outcrop	_____
TOP/GEO/WATER QUALITY	**1200**						
Materials Analysis	600	> 20 T $CaCO_3$/Thou T	_____	10-20 T $CaCO_3$/Thou T	_____	<10 T $CaCO_3$/Thou T	_____
Slopes	400	< 20%	_____	20% To 40%	_____	> 40%	_____
Overburden Type	200	< 20% Sandstone	_____	20%-60% Sandstone	_____	> 60% Sandstone	_____
RECLAMATION PLAN	**1200**						
Permit Acreage	800	< 3 Acre	_____	3 To 10 Acres	_____	> 10 Acres	_____
Proj. Life of Mine	400	< 3 Years	_____	3 To 10 Years	_____	> 10 Years	_____
ANCILLARY FACILITIES	**800**						
Preparation Plant	400	< 200 Tons/Hr Cap.	_____	200-500 Tons/Hr Cap	_____	> 500 Tons/Hr Cap	_____
Coal Refuse Site	400	< 5 Acres	_____	5 - 10 Acres	_____	> 10 Acres	_____
OPERATOR PERFORMANCE	**600**						
Violation HIstory	400	Avg. < 3 Viol/Permit	_____	3 To 5 Viol/Permit	_____	> Avg 5 Viol/Permit	_____
Status Existing Oper.	200	Full Compliance	_____	Compl. 90% Current	_____	Basic Comp. 75% Cur.	_____
ENVIRONMENTAL ENHANC.	**-1000**						
Gratuitous Rec.	-600	< 1 Acre	_____	1 - 5 Acres	_____	> 5 Acres	_____
Reclamation Awards	-400	One Local	_____	> 1 Local	_____	Local & National	_____
Wetlands	-200	< 1 Acre	_____	1 To 5 Acres	_____	> 5 Acres	_____
SUBTOTALS							

TABLE 2 UNDERGROUND MINES

TOTAL BOND AMOUNT $_____ / ACRE

(e) Coal Preparation Plants. Table 3 displays the criteria, sub-criteria, and conversion factors for the category of coal preparation plants (which excludes coal-loading facilities) to be applied as follows:

(1) The criteria of size is assigned a maximum criteria value of 1600, subject to the following sub-criteria constants:

(A) The capacity of the specific plant in tons per hour of coal which the plant is designed to process is assigned a sub-criteria constant of 1000, subject to the following conversion factors:

(i) Where the coal processing plant is designed to process less than 200 tons of raw coal per hour, a conversion factor of 0.2 is assigned;

(ii) Where the coal processing plant is designed to process between 200 and 750 tons of raw coal per hour, a conversion factor of 0.6 is assigned; and

(iii) Where the coal preparation plant is designed to process over 750 tons of raw coal per hour, a conversion factor of 1.0 is assigned.

(B) The cumulative storage capacity of all proposed or existing coal storage silos is assigned a sub-criteria constant of 400, subject to the following conversion factors:

(i) Where the silos are designed to store less than 2,500 tons of coal, a conversion factor of 0.2 is assigned;

(ii) Where the silos are designed to store between 2,500 and 5,000 tons of coal, a conversion factor of 0.6 is assigned; and

(iii) Where the proposed or existing silos are designed to store more than 5,000 tons of coal, a conversion factor of 1.0 is assigned.

(C) The size in acres of the coal stockpile loading and operating area of the facility is assigned a sub-criteria constant of 200, subject to the following conversion factors:

(i) Where the coal stockpile and operating area of the facility is less than five acres, a conversion factor of 0.2 is assigned;

(ii) Where the coal stockpile and operating area of the facility is between five acres and ten acres, a conversion factor of 0.6 is assigned; and

(iii) Where the coal stockpile and operating area of the facility is greater than ten acres, a conversion factor of 1.0 is assigned.

(2) The proposed construction of a coal refuse disposal site in conjunction with a coal preparation plant, or the use of an existing coal refuse disposal site is assigned a maximum criteria value of 1000, subject to the following sub-criteria constants:

(A) The capacity of a coal refuse disposal site to impound water or slurry is assigned a sub-criteria constant of 800, subject to the following conversion factors:

(i) Where the impounding capacity of the coal refuse disposal site is less than twenty acre/feet, a conversion factor of 0.2 is assigned;

(ii) Where the impounding capacity of the coal refuse disposal site is between twenty and fifty acre/feet, a conversion factor of 0.6 is assigned; and

(iii) Where the impounding capacity of the coal refuse disposal facility is greater than fifty acre/feet, a conversion factor of 1.0 is assigned.

(B) A non-impounding coal refuse disposal site is assigned a sub-criteria constant of 200 based on its size in acres and subject to the following conversion factors:

(i) Where a non-impounding coal refuse disposal site is less than ten acres in size, a conversion factor of 0.2 is assigned;

(ii) Where a non-impounding coal refuse disposal site is between ten and twenty acres, a conversion factor of 0.6 is assigned; and

(iii) Where a non-impounding coal refuse disposal site is greater than twenty acres in size, a conversion factor of 1.0 is assigned.

(3) The reclamation plan for the coal preparation plant is assigned a maximum criteria value of 1200, subject to the following criteria constants:

(A) The total disturbed area upon which the coal preparation plant and all ancillary facilities included in the permit is located and operated is assigned a sub-criteria constant of 800, subject to the following conversion factors:

(i) Where the total disturbed area is less than twenty acres, a conversion factor of 0.2 is assigned;

(ii) Where the total disturbed area is between twenty and fifty acres, a conversion factor of 0.6 is assigned; and

(iii) Where the total disturbed area is greater than fifty acres, a conversion factor of 1.0 is assigned.

(B) For the length of time in which the coal preparation plant is projected to be in operation a sub-criteria constant of 400 is assigned, subject to the following conversion factors:

(i) Where the length of duration for the plant is less than five years, a conversion factor of 0.2 is assigned;

(ii) Where the length of duration of the plant is between five and ten years, a conversion factor of 0.6 is assigned; and

(iii) Where the length of duration of the plant is greater than ten years, a conversion factor of 1.0 is assigned.

(4) The history of performance of the applicant in terms of level of performance of mining and reclamation activities in accordance with State law is assigned a maximum criteria value of 1200, subject to the following sub-criteria constants:

(A) The violation history in West Virginia of the applicant based on the average number of cessation orders and/or

notices of violations with a seriousness rating of greater than 4, and any cessation orders for all active permits is assigned a sub-criteria constant of 800 subject to the following conversion factors: provided, That the violation history period includes only the last full calendar year prior to the date an SMA is issued: provided, however, That where the applicant has no record of performance in the state, a conversion factor of 1.0 is assigned:

(i) When the average number of notices of violation and cessation orders per active permit is less than 3, a conversion factor of 0.2 is assigned;

(ii) When the average number of notices of violation and cessation orders per active permit is between three and five, a conversion factor of 0.6 is assigned; and

(iii) When the average number of notices of violation and cessation orders per active permit of greater than five, a conversion factor of 1.0 is assigned.

(B) The status of all active permits held by the applicant in West Virginia based on compliance with the law and these regulations and compliance with the reclamation plan for these permits during the terms of the public notice for the proposed application is assigned a sub-criteria constant of 400, subject to the following conversion factors; provided, That when the applicant holds no permits in the state, a conversion factor of 1.0 is assigned:

(i) A status of full compliance (no notices of violation are issued) with the laws, these regulations, and the reclamation plan, and one hundred percent (100%) contemporaneous reclamation is assigned a conversion factor of 0.2;

(ii) A status of compliance (no negligence on the part of the operator in abatement action on outstanding notices of violation) and ninety percent (90%) contemporaneous reclamation exists, a conversion factor of 0.6 is assigned; and

(iii) A status of basic compliance with the law and these regulations (negligence on the part of the operator in abatement action for notices of violation) and seventy percent (70%) contemporaneous reclamation exists, a conversion factor of 1.0 is assigned.

(5) Where the applicant has demonstrated success in conducting mining and reclamation operations in such a manner that environmental resources have been extraordinarily enhanced, a bond reduction credit expressed as a negative criteria value of no greater than -1000 is assigned subject to the following sub-criteria constants:

(A) Where the applicant has received recognition for excellence in reclamation through local and/or national awards, from awards programs sanctioned by any regulatory authority as defined in Public Law 95-87 within five (5) years of the date of SMA approval, a sub-criteria constant of -600 is assigned:

(i) Where the applicant has received one local award but no national awards, a conversion factor of 0.2 is assigned;

(ii) Where the applicant has received one or more local awards but no national awards, a conversion factor of 0.6 is assigned; and

(iii) Where the applicant has received one or more local and/or national awards, a conversion factor of 1.0 is assigned.

(B) Where the applicant has demonstrated a history of restoration, development, or enhancement of wetlands within five (5) years of the date of SMA approval, a sub-criteria constant of -400 is assigned, subject to the following conversion factors:

(i) Where the total cumulative area of wetlands which have been restored, developed, or enhanced is one acre or less, a conversion factor of 0.2 is assigned;

(ii) Where the total cumulative area of wetlands which have been restored, developed, or enhanced is between one and five acres, a conversion factor of 0.6 is assigned; and

(iii) Where the total cumulative area of wetlands which have been restored, developed, or enhanced is greater than five, a conversion factor of 1.0 is assigned.

		0.2		.6		1.0	
SIZE	**1600**						
Capacity Tons/Hour	1000	< 200	____	200-750	____	> 750	____
Silo Capacity	400	< 2500 Tons	____	2500 - 5000 Tons	____	> 5000 Tons	____
Stockpile Acreage	200	< 5 Acres	____	5-10 Acres	____	> 10 Acres	____
REFUSE SITE	**1000**						
Impounding	800	< 20 Acre/feet	____	20-50 Acre/feet	____	> 50 Acre/feet	____
Non-Impounding	200	< 10 Acres	____	10 - 20 Acres	____	> 20 Acres	____
RECLAMATION PLAN	**1200**						
Permit Acerage	800	< 20 Acres	____	20 - 50 Acres	____	> 50 Acres	____
Duration	400	< 5 Years	____	5-10 Years	____	> 10 Years	____
OPERATOR PERFORMAMCE	**1200**						
Violation History	800	Avg < 3 Viol/Permit	____	3-5 Viol/Permit	____	> Avg 5 Viol/Permit	____
Status Existing Opr	400	Full Compliance	____	Compli. 90% Current	____	Basic Compl.75% Cur.	____
ENVIRONMENTAL ENHANCE	**-1000**						
Reclamation Awards	-600	One Local	____	> 1 Local	____	Local & National	____
Wetlands	-400	< 1 Acre	____	1-5 Acres	____	> 5 Acres	____
SUBTOTALS							

TABLE 3 COAL PREPARATION PLANTS

TOTAL BOND AMOUNT $ _____ / ACRE

(f) Coal Refuse Disposal Sites. Table 4 displays the criteria, sub-criteria and conversion factors for the category of coal refuse disposal sites to be applied as follows:

(1) The size of coal refuse disposal sites in terms of volumes of material and impounding capacity is assigned a maximum criteria value of 1200, subject to the following sub-criteria constants:

(A) The capacity of the coal refuse disposal site to impound water is assigned a sub-criteria constant of 1200 subject to the following conversion factors:

(i) Where the impounding capacity of the coal refuse disposal site is less than fifty acre/feet, a conversion factor of 0.2 is assigned;

(ii) Where the impounding capacity of the coal refuse disposal site is between fifty acre/feet and one hundred acre/feet, a conversion factor of 0.6 is assigned; and

(iii) Where the impounding capacity of the coal refuse disposal site is greater than one hundred acre/feet, a conversion factor of 1.0 is assigned.

(B) The total permitted size in acres of a non-impounding coal refuse disposal site is assigned a sub-criteria constant of 1000, subject to the following conversion factors:

(i) Where the size of the proposed coal refuse disposal site is twenty acres or less, a conversion factor of 0.2 is assigned;

(ii) Where the total permitted size of the coal refuse disposal site is between twenty and fifty acres, a conversion factor of 0.6 is assigned; and

(iii) Where the size of the proposed coal refuse disposal site is greater than fifty acres, a conversion factor of 1.0 is assigned.

(2) The topography, geology, and water quality considerations of an impounding or non-impounding coal refuse disposal site is assigned a maximum criteria value of 1800, subject to the following sub-criteria constants:

(A) The average slope of the area upon which the coal refuse disposal site is located is assigned a sub-criteria

constant of 1000, subject to the following conversion factors. Where the site is located in a valley, the determining slope measurements will be taken from below the projected toe of the site to above the projected finished level:

(i) Where the average slope of the area on which the coal refuse disposal site is located is less than seven percent (7%), a conversion factor of 0.2 is assigned;

(ii) Where the average slope of the area on which the coal refuse disposal site is located is between seven and ten percent (7% and 10%), a conversion factor of 0.6 is assigned; and

(iii) Where the average slope of the area on which the coal refuse disposal site is located is greater than ten percent (10%), a conversion factor of 1.0 is assigned.

(B) The acid/base accounting value of the coal refuse is assigned a sub-criteria constant of 800, subject to the following conversion factors:

(i) Where the acid/base accounting analysis indicates a net excess of greater than twenty tons of calcium carbonate per thousand tons of material, a conversion factor of 0.2 is assigned;

(ii) Where the acid/base accounting analysis indicates a net excess of between ten and twenty tons of calcium carbonate equivalents per thousand tons of material, a conversion factor of 0.6 is assigned; and

(iii) Where the acid/base accounting analysis indicates less than ten tons net excess of calcium carbonate equivalents per thousand tons of material or a net calcium carbonate deficiency, a conversion factor of 1.0 is assigned.

(3) The reclamation plan for the proposed coal refuse disposal site is assigned a maximum criteria value of 1000, subject to the following sub-criteria constants:

(A) The requirements for and the availability of topsoil to cover the coal refuse disposal site for the purposes of establishing vegetation is assigned a sub-criteria constant of 600, subject to the following conversion factors:

(i) Where the coal refuse disposal site requires topsoiling and the topsoil or topsoil substitute

material is available on site, a conversion factor of 0.2 is assigned;

(ii) Where the coal refuse disposal site requires topsoiling and the topsoil or topsoil substitute material must be transported from adjacent off-site areas, a conversion factor of 0.6 is assigned; and

(iii) Where the coal refuse disposal site can be direct seeded, a conversion factor of 1.0 is assigned.

(B) The projected life of the coal refuse disposal site in terms of years of operation is assigned a sub-criteria constant of 400, subject to the following conversion factors:

(i) Where the projected life of the coal refuse disposal site is less than five years, a conversion factor of 0.2 is assigned;

(ii) Where the projected life of the coal refuse disposal site is between five and twenty years, a conversion factor of 0.6 is assigned; and

(iii) Where the projected life of the coal refuse disposal site is greater than twenty years, a conversion factor of 1.0 is assigned.

(4) The historical performance of the operating company in terms of level of performance of mining and reclamation activities in accordance with state law is assigned a maximum criteria value of 1000, subject to the following sub-criteria constants:

(A) The violation history in West Virginia of the applicant based on the average number of notices of violation with a seriousness rating of greater than 4, and any cessation order for all active permits, is assigned a sub-criteria constant of 600, subject to the following conversion factors: provided, That the violation history period includes only the last full calendar year prior to the date an SMA is assigned; provided, however, That when the applicant has no record performance in the state, a conversion factor of 1.0 is assigned:

(i) Where the average number of notices of violation and cessation orders per active permit is less than 3, a conversion factor of 0.2 is assigned;

(ii) Where the average number of notices of violation and cessation orders per active permit is between 3 and 5, a conversion factor of 0.6 is assigned; and

(iii) Where the average number of notices of violation and cessation orders per active permit is greater than 5, a conversion factor of 1.0 is assigned.

(B) The status of all active permits held by the applicant in West Virginia, based on compliance with the law and these regulations, and compliance with the permits reclamation plan during the public notice period for the subject proposed application is assigned a sub-criteria constant of 400, subject to the following conversion factors; provided, however, That where the applicant holds no permits in the state, a conversion factor of 1.0 is assigned:

(i) Where a status of full compliance (no notices of violations were issued) with the law, these regulations, and the reclamation plan and one hundred percent (100%) contemporaneous reclamation exists, a conversion factor of 0.2 is assigned;

(ii) Where a status of compliance exists with the law and these regulations (no negligence on the part of the operator in abatement action on notices of violation) and ninety percent (90%) concurrent reclamation, a conversion factor of 0.6 is assigned; and

(iii) Where a status of basic compliance exits with the law and these regulations (negligence on the part of the operator in abatement action for notices of violation) and seventy percent (70%) concurrent reclamation, a conversion factor of 1.0 is assigned.

(5) Where the applicant has demonstrated success in conducting mining and reclamation operations in such a manner that environmental resources have been extraordinarily enhanced, a bond reduction credit, expressed as a negative criteria value, of no greater than -500 is assigned, subject to the following sub-criteria constants:

(A) Where the applicant has received recognition for excellence in reclamation through local and/or national awards, from awards programs sanctioned by any regulatory authority as defined in Public Law 95-87 within five (5) years of the date of SMA approval, a sub-criteria constant of -300 is assigned, subject to the following conversion factors:

(i) Where the applicant has received one local award, but no national awards, a conversion factor of 0.2 is assigned;

(ii) Where the applicant has received more than one local award, but no national awards, a conversion factor of 0.6 is assigned; and

(iii) Where the applicant has received both local and national awards, a conversion factor of 1.0 is assigned.

(B) Where the applicant has demonstrated a history of restoration, development, or enhancement of wetlands within five (5) years of the date of SMA approval, a sub-criteria constant of -200 is assigned, subject to the following conversion factors:

(i) Where the cumulative area of wetlands which have been restored, developed, or enhanced is less than one acre, a conversion factor of 0.2 is assigned;

(ii) Where the cumulative area of wetlands which have been restored, developed, or enhanced is between one and five acres, a conversion factor of 0.6 is assigned; and

(iii) Where the cumulative area of wetlands which have been restored, developed, or enhanced is greater than five acres, a conversion factor of 1.0 is assigned.

0))

		0.2		.6		1.0	
SIZE	**1200**						
Impounding	1200	< 50 Acre/feet	____	50 - 100 Acre/feet	____	> 100 Acre/feet	____
Non-Impounding	1000	< 20 Acres	____	20 - 50 Acres	____	> 50 Acres	____
TOPO/GEO/WATER QUALITY	**1800**						
Slopes	1000	< 7 %	____	7-10 %	____	> 10 %	____
Materials Analysis	800	> 20 T $CaCO_3$/Thou.T	____	10-20 T $CaCO_3$/Thou T	____	< 10 T $CaCO_3$/Thou T	____
RECLAMATION PLAN	**1000**						
Topsoil	600	On Site Material	____	Off Site Material	____	Direct Seeding	____
Projected Life	400	< 5 Years	____	5-20 Years	____	> 20 Years	____
OPERATOR PERFORMANCE	**1000**						
Violation History	600	Avg. < 3 Viol/Permit	____	Avg. 3-5 Viol/Permit	____	> Avg 5 Viol/Permit	____
Status Exist. Oper.	400	Full Compliance	____	Compl. 90% Current	____	Basic Compl.75% Cur	____
ENVIRONMENTAL ENHANCE	**-500**						
Reclamation Awards	-300	One Local	____	> 1 Local	____	Local & National	____
Wetlands	-200	< 1 Acre	____	1-5 Acres	____	> 5 Acres	____
SUBTOTLAS							

TABLE 4 COAL REFUSE SITES

TOTAL BOND AMOUNT $ _____ / ACRE

(g) When the applicant believes that the per-acre amount of the bond derived pursuant to this subsection is inappropriate, the calculated amount of the bond may be rebutted as follows:

(1) The applicant shall set forth in writing the reasons why it is believed that the bond amount is inappropriate to include a statement as to the amount which is believed to be appropriate.

(2) Upon receipt of the written rebuttal the Director shall within fifteen (15) days hold an informal conference with the applicant to hear arguments as to the rebutted bond amount.

(3) The Director shall issue a written decision within five (5) days following the informal conference setting forth a final bond amount.

(4) The applicant may file an appeal of the Director's decision in accordance with West Virginia Code 22-5-21.

11.7 Environmental Security Account for Water Quality. The Director shall initiate and complete, within no more than two hundred forty days, a study of the desirability of establishing an environmental security account for water quality. In performing the study, the Director shall make provisions for public input.

The study shall address the desirability of establishing an environmental security account for water quality to include whether or not such account should be required or elective. The study shall include the following:

(a) A screening process which will assist the Director and the applicant in conducting an environmental audit of a proposed mining operation in areas of the State which may have a potential for producing acid mine drainage.

(b) A process for predicting whether acid mine drainage will be produced from the proposed operation and if so, its rate and duration.

(c) A method estimating the cost of installing, operating, and maintaining a water treatment system for the treatment of acid mine drainage from the proposed operation.

(d) A system to ensure that sufficient monies will be placed in an escrow account which will provide sufficient

financial assurance that treatment of acid mine drainage will be accomplished and maintained as required by the Act and these regulations. Default on the part of the operator shall be equivalent to a bond forfeiture and the operator shall be subject to all the enforcement sanctions and penalties as if a bond forfeiture had occurred.

(e) In considering a system as provided in paragraph (d) of this subsection, the Director shall establish procedures to expend the necessary funds from the escrow account in the event of default by the operator to comply with the Act and these regulations.

(f) Following completion of the study, the Director may propose, and after public comment, promulgate a rule in accordance with the procedures set forth in Chapter 29A of the Code to implement the environmental security account for water quality. The regulations will not become effective until approved by the Legislature.

(g) If statutory changes are necessary to fully implement an effective system for financial assurances, the Director shall so inform the Legislature, and shall stay promulgation of the regulations until the Legislature has had an opportunity to consider the necessary statutory changes.

(h) Nothing in this subsection shall authorize in any way the issuance of a permit in which acid mine drainage is anticipated, and which would violate applicable effluent limitations or water quality standards without treatment.

11.8 Selective Husbandry Practices. The Director may approve selective husbandry practices, excluding augmented seeding, fertilization or irrigation, without extending the period of bond liability if the permittee can demonstrate that discontinuance of such measures after the liability period expires will not reduce the probability of permanent revegetation success.

Approved husbandry practices shall be limited to pest and vermin control, pruning and any reseeding and/or transplanting specifically necessitated by such actions, but shall be normal conservation practices within the region for unmined lands having land uses similar to the approved postmining land use of the area covered by the bond.

38-2-12. Replacement, Release, and Forfeiture of Bonds.

12.1 Replacement of Bonds.

(a) The Director may approve the replacement of existing bonds with other equivalent bonds.

(b) Existing bonds shall not be released until the permittee has submitted, and the Director has approved, acceptable replacement bonds. Replacement of a bond pursuant to this section shall not constitute a release of bond.

12.2 Requirement to Release Bonds.

(a) In addition to the requirements of Section 23 of the Act, the following bond release procedures shall be observed:

(1) The permittee may file an application with the Director for the release of all or part of a bond. Applications may be filed only at times or during seasons established by the Director which allow proper evaluation of the completed reclamation operations.

(2) A certification of publication of the advertisement shall be made a part of any bond release application file. In addition to the requirement of Section 23 of the Act, the advertisement shall indicate the name of the permittee, the type of bond filed, the address of the nearest regional office of the Division of Environmental Protection to which written comments or requests for public hearings and informal conferences on the specific bond release may be submitted, and the closing date for receipt of comments or requests. In addition, as part of any bond release application, the applicant shall submit copies of letters which have been sent to adjoining property owners, local governmental bodies, planning agencies, sewage and water treatment authorities, and water companies in the locality in which the surface coal mining and reclamation operation took place, notifying them of the intention to seek release from the bond.

(b) Inspection by the Director.

(1) Upon receipt of the bond release application, the Director shall, within thirty (30) days, or as soon thereafter as weather conditions permit, conduct an inspection and evaluation of the reclamation work involved. The surface owner, agent, or lessee shall be given notice of such inspection and may participate in making the bond release inspection.

(2) Within sixty (60) days from the filing of the bond release application, if no public hearing is held, or within thirty (30) days after a public hearing or informal conference has been held, the Director shall notify in writing the permittee, the surety or other persons with an interest in bond collateral who have requested notification, and the persons who either filed objections in writing or objectors who were a party to the hearing proceedings, if any, of his decision to release or not to release all or part of the bond.

(c) Except as provided in paragraphs (d) and (e) of this subsection, the Director may release all or part of the bond for the permit or increment thereof in accordance with the following schedule if no violations exist relative to the permitted site, and if the requirements of this subsection are met.

(1) After the operator completes the backfilling, regrading (which may include the replacement of topsoil) and drainage control of a bonded area in accordance with the Act, these rules and regulations, and the terms and conditions of the permit to include the provisions of subsection 14.5 of these regulations, Phase I reclamation shall be considered complete, and sixty (60) percent of the bond or collateral for the applicable area may be released.

(2) After revegetation has been established on the regraded mined lands in accordance with the approved reclamation plan, Phase II reclamation shall be considered complete and an additional twenty-five (25) percent of the original bond amount may be released, provided that:

(A) Not less than two years after the last augmented seeding, standards for revegetation success have been met.

(B) The lands are not contributing suspended solids to stream flow or runoff outside the permit area in excess of the requirements of the Act, these rules and regulations, and the terms and conditions of the NPDES permit.

(C) With respect to prime farmland, soil productivity has been returned to the level of yield as required by the Act, these rules and regulations, and the terms and conditions of the permit.

(D) The provisions of a plan approved by the Director for the sound future management of any permanent impoundment by the permittee or landowner have been implemented.

(E) The amount of the remaining bond shall be sufficient to cover the estimated cost of reestablishing vegetation and maintaining permanent drainage control structures.

(3) Upon successful completion of the reclamation requirements of the Act, these rules and regulations, and the terms and conditions of the permit, Phase III reclamation shall be considered completed and the Director may release the remaining bond(s).

(d) Notwithstanding any other provisions of the Act and this subsection, the Director may not release any portion of the bond posted in accordance with subsection 11.5 of these regulations until all coal extraction operations are completed and the entire disturbed area has been completely backfilled and regraded.

(e) Notwithstanding any other provisions of this section or these regulations, no bond release or reduction will be granted if, at the time, water discharged from or affected by the operation requires chemical treatment in order to comply with applicable effluent limitations or water quality standards as set forth in paragraph (b), subsection 14.5 of these regulations.

(f) If the Director disapproves the application for release of the bond or portion thereof, he shall notify the permittee, the surety, and any person with an interest in collateral, in writing, stating the reasons for disapproval and recommending corrective actions necessary to secure the release and allowing an opportunity for a public hearing.

(g) Any person with a valid legal interest which might be adversely affected by release of the bond, or the responsible officer or head of any Federal, State, or local governmental agency which has jurisdiction by law or special expertise with respect to any environmental, social, or economic impact involved in the operation or which is authorized to develop and enforce environmental standards with respect to such operations, shall have the right to file written objections to the proposed release of bond with the Commission within thirty (30) days after the last publication of the notice required by paragraph (a) (2), subsection 12.2 of this section. If written objections are filed and a hearing is requested, the Director shall inform all the interested parties of the time and place of the hearing, and

shall hold a public hearing, or informal conference, within thirty (30) days after receipt of the request for the hearing. The date, time, and location of the public hearing, or informal conference, shall be advertised by the Director in a newspaper of general circulation in the locality for two (2) consecutive weeks. The public hearing, or informal conference, shall be held in the locality of the surface coal mining operation from which bond release is sought.

(h) Without prejudice to the right of an objector or the applicant, and when all parties agree, the Director may hold an informal conference in lieu of a public hearing to resolve such written objections. Unless waived by all parties, the Director shall make a record of the informal conference which shall be accessible to all parties. The Director shall also furnish all parties of the informal conference with written findings based on the informal conference, and the reasons for said findings.

12.3 Bond Adjustments.

(a) Where the permittee demonstrates, on the basis of a sworn statement and a progress map, that a portion of the permit area will remain undisturbed or has been overbonded in accordance with paragraph (a) of subsection 3.29 of these regulations, the Director may adjust the amount of the bond corresponding to the number of undisturbed or overbonded acres, provided that a minimum of $10,000.00 bond remains for the disturbed portion of the permit. Prior to a decision on the request for bond adjustment, the Director shall notify the surety, and any person with a property interest in collateral who has requested notification, of receipt of the request for adjustment to the bond amount. Within thirty (30) days, the Director shall make a decision on the request. If the request is denied, the Director shall provide the permittee with an opportunity for an informal conference on the decision.

(b) Upon receipt of a permit revision, the Director may review the bond adequacy and if necessary may require an increase in the amount of the bond.

(c) The provisions of this subsection are not subject to the provisions of subsection 12.2.

12.4 Forfeiture of Bonds.

(a) If an operator refuses or is unable to conduct reclamation of an unabated violation, if the terms of the permit are not met, or if the operator defaults on the conditions under

which the bond was accepted, the Director shall take the following action to forfeit all of the bond:

(1) Send written notification by certified mail, return receipt requested, to the permittee and the surety on the bond, if any, informing them of the decision to forfeit the bond, including the reasons for the forfeiture and the amount to be forfeited. Bond liability shall extend to the entire permit area.

(2) Advise the permittee and surety, if applicable, of the conditions under which forfeiture may be avoided. Such conditions may include, but are not limited to:

(A) Agreement by the permittee or another party to perform reclamation operations in accordance with a compliance schedule which meets the conditions of the permit, the reclamation plan, and the regulatory program and a demonstration that such party has the ability to satisfy the conditions; or

(B) The Director may allow a surety to complete the reclamation plan, or the portion of the reclamation plan applicable to the bonded phase or increment, if the surety demonstrates the ability to complete the reclamation in accordance with the approved reclamation plan. No surety liability shall be released until successful completion of all reclamation under the terms of the permit and in accordance with the Act and these regulations to include the revegetation liability period.

(b) In the event forfeiture of the bond is required by this Section, the Director shall proceed to collect the forfeiture amount as provided for in subsection (b), Section 17 of the Act. Where the bond is forfeited, the proceeds shall be used by the Director to accomplish completion of reclamation including the requirements of Section 23 of the Act, this subsection, and subsection 12.5 of these regulations governing water quality.

(c) After the notice of forfeiture has been served, the Director shall in a timely manner, but not later than one hundred eighty (180) days after such notice, initiate reclamation operations to reclaim the site in accordance with the approved reclamation plan or modification thereof, including action to remediate any acid mine drainage from the site. The Director shall take the most effective actions possible to remediate acid mine drainage, including chemical treatment where appropriate, with the resources available.

(d) Where the proceeds of bond forfeiture are less than the actual cost of reclamation, the Director shall make expenditures from the special reclamation fund to complete reclamation. The Director shall take the most effective actions possible to remediate acid mine drainage, including chemical treatment where appropriate, with the resources available.

(e) The operator, permittee, or other responsible party shall be liable for all costs in excess of the amount forfeited. The Director may commence civil, criminal or other appropriate action to collect such costs.

12.5 Water Quality Enhancement.

(a) In accordance with subsection (g), Section 11 of the Act, the Director shall establish an inventory of all sites where bonds have been forfeited. Such inventory shall include data relating to the quality and quantity of water being discharged from the forfeited sites.

(b) The Director shall establish a priority listing of such sites based upon the severity of the discharges, the quality of the receiving stream, effects on downstream water users, and other factors determined to affect the priority ranking.

(c) Until the Legislature implements necessary adjustments or supplements to the special reclamation fund as set forth in paragraph (e) of this subsection, the Director shall select from the priority listing such sites for the application of amelioration techniques to achieve water quality enhancement and to minimize long-term disturbance to the hydrologic balance.

(d) In selecting such sites for water quality improvement projects, the Director shall determine the appropriate treatment techniques to be applied to the site. The selection process shall take into consideration the relative benefits and costs of the projects. Expenditures from the special reclamation fund for water quality enhancement projects shall not exceed twenty-five percent (25%) of the funds gross annual revenue as provided in subsection (g), Section 11 of the Act.

(e) On or before the thirty-first day of December, one thousand nine hundred ninety three, the Director shall submit to the Legislature a detailed report and inventory, which includes but is not limited to dates of mining and abandonment, with all supporting data on acid mine drainage bond forfeiture sites. Acid mine drainage bond forfeiture sites means all surface coal mining operations which have had their reclamation bonds

forfeited, which were not bonded but have been abandoned after the third day of August, one thousand nine hundred and seventy-seven, or which have a significant likelihood of bond forfeiture which are producing mine drainage which violates effluent limitations or applicable water quality standards. The report and inventory shall contain cost estimates of the long-term chemical treatment of drainage from each site to meet various standards to include all effluent limitations and applicable water quality standards.

The report and inventory shall contain proposals for supplementing and adjusting the special reclamation fund to assure that the fund is adequate to pay for the long-term treatment of acid mine drainage from all acid mine drainage bond forfeiture sites so that the discharges from these sites meet the effluent limitations set forth at 40 CFR, part 434, of Federal Regulations for coal mining operations and applicable water quality standards. The report shall contain a recommendation from the Director on which proposal he believes will best insure that the acid mine drainage from bond forfeiture sites is effectively addressed.

38-2-13. Requirements of a Notice of Intent to Prospect.

13.1 Notice of Intent to Prospect Without Land Disturbance. Where prospecting operations are proposed without surface disturbance and without appreciable impacts on land, air, water, or other environmental resources, the requirements of this section and the bonding requirements in Section 7 of the Act may be waived by the Director subject to the following:

(a) At least fifteen (15) days prior to commencement of any prospecting activities, the operator shall file with the Director a written notice of intent to prospect, which notice will include a description of the activities to be conducted and a USGS topographic map showing the area to be prospected.

(b) The Director may approve the notice of intent subject to the findings required in paragraph (b) of subsection 13.4 of this section.

13.2 Notice of Intent to Prospect - two hundred fifty (250) tons or less. Any person who intends to commercially sell or use coal extracted pursuant to this subsection in any quantity for reasons other than test purposes shall first obtain a surface mining permit. In addition to the requirements of Section 7 of the Act, all prospecting operations shall be subject to the requirements of this subsection.

(a) Application. The Notice of Intent shall be filed in triplicate, in clasp-type binders, on forms prescribed by the Director, and shall contain the following information:

(1) The name, street address or route number, and telephone number of the operator;

(2) Indicate if the operator is a corporation, partnership, or individual;

(3) The name, address, and telephone number of the person who will have responsibility for conducting prospecting;

(4) The name and address of all owners of surface land and mineral rights;

(5) The location of the operation (county, magisterial district and nearest post office);

(6) The anticipated date of commencement and completion of operations;

(7) Indicate whether or not the operator or any person, partnership, or corporation associated with the operator has on file, or has ever had on file, in the State of West Virginia a prospect permit and bond or an intent to prospect. If so, list all prospect permits and Notices of Intent to Prospect, together with an indication of their current reclamation status;

(8) The operator's source of legal right to enter and conduct operations;

(9) The notarized signature of a principal officer of the operator affixed to a statement declaring that the information contained in the Notice is true and correct to the best of his knowledge;

(10) The name, address, and telephone number of the applicant's representative who will have on-site responsibility for conducting the operation;

(11) A narrative description of the proposed operation including an estimated timetable for conducting and completing each phase of the operation to include reclamation;

(12) A description of how the applicant will conduct prospecting operations so as to protect habitats of unique or unusually high value for fish, wildlife, and other related environmental values and critical habitats of threatened or endangered species identified pursuant to the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq); and

(13) A description of cultural or historical resources listed or known to be eligible for listing on the National Register of historic places and all known archaeological sites located within the proposed prospecting area.

(b) Reclamation Plan. A reclamation plan which includes the following:

(1) The method of prospecting;

(2) The method for controlling runoff and sedimentation;

(3) The method of regrading;

(4) A plan for revegetation;

(5) The method for sealing, casing or otherwise managing prospecting holes, bore holes, wells or other exposed underground openings created during the prospecting; and

(6) The method of constructing and/or utilizing roads.

(c) Maps. A map showing topographic features, streams, bodies of water, manmade structures, utility lines, etc. equivalent to that of a United States geological survey topographic quadrangle map (scale 1" = 2,000′). The following additional information shall also be shown:

(1) The surface and mineral owners of the tract(s) and property lines within the area to be prospected, including occupied dwellings not otherwise shown on the map;

(2) The quadrangle title with a north arrow;

(3) Clearly indicate the name(s) of the receiving stream(s);

(4) Show by proper markings the approximate location of the cropline(s) and name of the seam(s);

(5) Show the area(s) to be disturbed and the approximate location of excavations, trenches, drill holes, proposed and existing roads, and list the number of disturbed acres and;

(6) Show the location of critical habitats of any threatened or endangered species identified within the proposed prospecting area.

13.3 Notice of Intent to Prospect - Greater than two hundred fifty (250) Tons. Any person who intends to commercially sell or use coal extracted pursuant to this subsection in any quantity for reasons other than test purposes shall first obtain a surface mining permit. If prospecting will remove more than 250 tons of coal, the Notice of Intent to Prospect shall include, in addition to the requirements of subsection 13.2 of this Section, the following:

(a) The applicant shall prepare a narrative discussion of a feasibility study for the site, including the specific reasons for extraction of the amount of tonnage for which permission is requested. The narrative shall be of sufficient detail to enable the Director to make a determination that the proposed extraction and sale of the coal is incidental to testing of the coal to

determine if it is of a mineable and merchandisable quality, so as to make it possible to conduct surface mining and reclamation operations on the site for which a permit application can be submitted at a later date. The narrative shall explain in detail why other means of prospecting/exploration, such as core drilling, involving extraction of less than 250 tons of coal, are not adequate to determine the quality of the coal and the feasibility of future surface mining and reclamation operations on the site. Form, generic or general statements by the applicant of a need for quality testing of more than 250 tons shall not be adequate grounds for the Director's approval of removal of greater than 250 tons. The narrative shall contain at a minimum:

(1) A demonstration that the amount of coal to be removed under the notice of intent to prospect application is not the total reserve of coal but is a random sampling of a larger reserve.

(2) Demonstrates that the coal testing is necessary for the development of a surface coal mining and reclamation operation for which a surface coal mining operation permit application is to be submitted in the near future, and that the proposed commercial use or sale of coal extracted during prospecting operations is solely for the purpose of testing the coal.

(3) A demonstration that the application is for prospecting and is not surface mining or an "early start-up" for a surface mining operation.

(4) A statement that reclamation will be completed within three (3) months of initial disturbance of each site to be disturbed under the notice of intent to prospect.

(5) A description of any endangered or threatened species identified within the prospecting area.

(6) The location of cultural or historical resources listed or known to be eligible for listing on the National Register of historic places and all known archaeological sites located within the proposed prospecting area.

(7) Any other information required by the Director regarding known or unknown historic or archaeological resources.

(8) A narrative description of the methods and equipment to be used to conduct prospecting and reclamation.

(b) The name of the company that will receive the tonnage for test burning or other testing purposes and further identify with specificity the precise tests that will be conducted on the coal and the location of the test site. Furthermore, the applicant shall state that the testing proposed in the application has already been agreed to by the applicant and the company that will receive the coal.

(c) The intended end user and/or agent or broker shall provide a statement to be made a part of the application which will set forth the specific reasons for the test, including why the coal may be so different from the intended user's other coal supplies as to require testing; the amount of coal necessary for the test and why a lesser amount is not sufficient; and a description of the specific tests that will be conducted.

(d) A map which contains all information required in subsection 13.1 of this section and which additionally shows the location of critical habitats of threatened or endangered species identified within the proposed prospecting area.

(e) A copy of a legal notice to be published in a newspaper of general circulation in the county where prospecting will occur. The ad shall contain the following:

(1) The name and business address of the operator;

(2) The date the application was filed and the date of close of a public comment period which date shall not be less than fifteen (15) days after the date of publication;

(3) The address of the office of the Division of Environmental Protection where any person whose interest is or may be adversely affected shall have the right to submit written comments;

(4) A description of the general area where prospecting will occur;

(5) A statement that an excess of two hundred fifty (250) tons of coal will be removed;

(6) The purpose for removing more than two hundred fifty (250) tons; and

(7) An estimate of the total tonnage to be removed.

13.4 Approval of Notice of Intent to Prospect - Greater than two hundred fifty (250) Tons.

(a) The Director shall act upon an administratively complete application for a prospecting approval and any written comments within a reasonable period of time, but in no event shall action be taken prior to the close of the public comment period.

(b) The Director shall approve a complete and accurate application for a prospecting approval filed in accordance with this section if he finds, in writing, that the applicant has demonstrated that the prospecting and reclamation operation described in the application will:

(1) Be conducted in accordance with this section, and other applicable provisions of these regulations, the Act, and the application;

(2) Not jeopardize the continued existence of an endangered or threatened species listed pursuant to Section 4 of the Endangered Species Act of 1973 (16 U.S.C. 1533) or result in the destruction or adverse modification of critical habitat of those species; and

(3) Not adversely affect any cultural or historical resources listed on the National Register of Historic Places, pursuant to the National Historic Preservation Act, as amended (16 U.S.C. Sec. 470 et seq., 1976, Supp V), unless the proposed prospecting has been approved by both the Director and the agency with jurisdiction over such matters.

(c) Terms of approval issued by the Director shall contain conditions necessary to ensure that the prospecting and reclamation operations will be conducted in compliance with these regulations, the Act and the application.

(d) The Director shall notify the applicant, the appropriate local government officials, and other commentors on the application, in writing, of his decision on the application. If the application is disapproved, the notice to the applicant shall include a statement of the reason for disapproval. Public notice of the decision on each application shall be posted by the Director at the nearest Division of Environmental Protection office in the vicinity of the proposed prospecting operations.

(e) Any person having an interest which is or may be adversely affected by a decision of the Director pursuant to

paragraph (d) of this subsection shall have the opportunity for administrative and judicial review.

(f) The Director shall not approve the extraction of more than 250 tons for any reason other than that the coal will be tested for quality and combustibility.

(g) The Director shall monitor the operation of each and every prospecting approval granted for total compliance with the provisions of the Act, these rules and regulations, and the terms and conditions of the approval application.

(h) The operator shall submit a sworn statement to the local surface mining reclamation inspector prior to the completion of coal removal which will verify that the coal was used for the purpose for which the notice of intent to prospect was originally granted.

(i) If the Director determines that, or suspects on the basis of information made available to him that, a prospecting operation is not being conducted in the precise manner set forth in the notice of intent to prospect and/or the accompanying narrative, the Director shall take immediate steps to compel compliance or to establish that violations have occurred. Such steps may include, but would not be limited to, checking weight tickets and the inspection of end-user records.

13.5 Performance Standards.

(a) This subsection establishes minimum performance standards applicable to prospecting operations provided that upon an affirmative demonstration that drilling operations that do not substantially disturb the land and are to be conducted solely for establishing property values for purposes of taxation or highway construction purposes, such drilling shall be exempted from this section. The commercial sale or use of coal extracted under an approval pursuant to subsection 13.1 or 13.2 of this section except for test purposes as provided therein is prohibited.

(b) Blasting. Blasting is prohibited on prospecting operations unless otherwise approved by the Director. Any blasting approved must be conducted in accordance with Section 6 of these regulations.

(c) Drainage. All disturbances created by prospecting operations shall be conducted in such a manner as to prevent or control erosion, siltation, pollution of water, and to minimize disturbance to the prevailing hydrologic balance. Such

operations shall be exempt from specific design and construction criteria for sediment control structures only if stabilization to control erosion is achieved through alternative measures. Any operation which will substantially disturb the natural land surface shall be required by the Director to install drainage control structures in accordance with Section 5 of these regulations.

(d) All prospecting operations carried out in steep slope conditions shall be conducted in a manner consistent with the steep slope requirements provided for in subsection (d) of Section 13 of the Act and subsection 14.8 of these regulations.

(e) The Director may limit prospecting operations from encroaching nearer than one hundred feet (100′) of a perennial or intermittent stream, provided that roads or access ways may be located within one hundred feet (100′) of an intermittent or perennial stream. Roads shall not be constructed up a stream bed or drainage channel or in close proximity to such channel so as to significantly alter the normal flow of water.

(f) Each prospecting hole, borehole, well or other exposed underground opening created during prospecting shall be cased, sealed, or otherwise managed to prevent acid or toxic drainage from entering ground or surface water, or substantial degradation of ground water quality or quantity. All such holes or openings shall be sealed, plugged, or otherwise managed to insure the safety of people, livestock, fish and wildlife, machinery, etc during prospecting. When no longer needed, such holes or openings shall be permanently closed.

(g) All toxic or acid-forming materials encountered while prospecting shall be handled in accordance with the requirements of subsections 14.5 and 14.6 of these regulations.

(h) All facilities and equipment shall be removed from the prospecting area when they are no longer needed.

(i) Topsoil shall be removed, stored and redistributed on disturbed areas as necessary to assure successful revegetation.

(j) All areas disturbed during prospecting operations shall be regraded to approximate original contour within three months of initial disturbance unless reclamation has been waived pursuant to receipt of an appropriate surface mine application number (SMA); provided, that reclamation cannot be delayed more than one (1) year from receipt of a surface mine application number.

(k) All disturbed areas must be revegetated in a manner consistent with Section 9 of these regulations.

(l) The operation shall be conducted so as to provide protection of endangered and threatened species and their critical habitats as determined by the Endangered Species Act of 1973 (16 U.S.C. 1531, et seq.) or habitats of unique or unusual high value for fish or wildlife.

13.6 Prospecting Roads.

(a) Each prospecting road shall be located, designed, constructed, reconstructed, used, maintained, and reclaimed so as to:

(1) Control or prevent erosion, siltation and the air pollution attendant to erosion, including road dust as well as dust occurring on other exposed surfaces, by measures such as vegetating, watering, using chemicals or other dust suppressants, or otherwise stabilizing all exposed surfaces in accordance with current, prudent engineering practices;

(2) Control or prevent damage to fish, wildlife, or their habitat and related environmental values;

(3) Control or prevent additional contributions of suspended solids to stream flow or runoff outside the permit area;

(4) Neither cause nor contribute to, directly or indirectly, the violation of State or Federal water quality standards applicable to receiving waters;

(5) Refrain from seriously altering the normal flow of water in streambeds or drainage channels;

(6) Prevent or control damage to public or private property, including the prevention or mitigation of adverse effects on lands within the boundaries of units of the National Park System, the National Wildlife Refuge System, the National System of Trails, the National Wilderness Preservation System, the Wild and Scenic Rivers System, including designated study rivers, and National Recreation Areas designated by Act of Congress; and

(7) Prevent the use of acid and toxic-forming substances in road surfacing.

(b) To ensure environmental protection appropriate for their planned duration and use, including consideration of the type and size of equipment used, the design and construction or reconstruction of prospecting roads shall incorporate appropriate limits for grade, width, surface materials, surface drainage control, culvert placement, and culvert size, in accordance with current, prudent engineering practices, and any design criteria established by the Director.

(c) No part of any prospecting road shall be located in the channel of an intermittent or perennial stream unless specifically approved by the Director in accordance with the applicable provisions of paragraph (b) of subsection 4.2 of these rules. Roads shall be located to minimize downstream sedimentation and flooding.

(d) A prospecting road shall be maintained to meet the performance standards of this subsection and any additional criteria specified by the Director.

(e) A prospecting road damaged by a catastrophic event, such as a flood or earthquake, shall be repaired as soon as is practicable after the damage has occurred.

(f) Reclamation. A prospecting road not to be retained under an approved postmining land use shall be reclaimed in accordance with the approved reclamation plan as soon as practicable after it is no longer need for prospecting operations. This reclamation shall include:

(1) Closing the road to traffic;

(2) Removing all bridges and culverts unless approved as part of the postmining land use;

(3) Removing or otherwise disposing of road-surfacing materials that are incompatible with the postmining land use and revegetation requirements.

(4) Reshaping cut and fill slopes as necessary to be compatible with the postmining land use and to complement the natural drainage pattern of the surrounding terrain;

(5) Protecting the natural drainage patterns by installing dikes or cross drains as necessary to control surface runoff and erosion; and

(6) Scarifying and ripping the roadbed; replacing topsoil or substitute material, and revegetating disturbed surfaces in accordance with Section 9 and Section 14.3 of these rules.

13.7 Expiration. A notice of intent to prospect shall be valid only for the time period indicated in the application, which period shall not exceed two (2) years. The Director may approve an extension of the time period upon a request by the operator subject to the reclamation requirements of paragraph (h), Section 7 of the Act and this Section.

13.8 Bond Release. The bond or other securities accompanying a notice of intent shall be released upon satisfactory regrading and establishment of a permanent vegetative cover. All applications for bond release shall be accompanied by a final map showing the total disturbed area of the prospecting operation.

13.9 Notice on Site. All operators conducting prospecting activities shall, while in the prospecting areas, have in their possession, a copy of the written approval of notice of intent for such activities issued by or submitted to the Director.

13.10 Public Records. All information submitted to the Division of Environmental Protection as a part of the notice of intent to prospect, as required in the Act and this section, shall be made available for public inspection and copying at the nearest Division of Environmental Protection office; provided, that information submitted to the Director pursuant to this subsection which contains trade secrets or privileged commercial or financial information which relates to the competitive rights of the person filing such information or other persons who may be affected, is certified information and shall not be available for public examination.

13.11 Lands Unsuitable Designation. Notwithstanding any other provision of this section, any person who proposes to conduct prospecting operations on lands which have been designated as unsuitable for surface mining pursuant to Section 22 of the Act, shall prepare and file a notice of intent in accordance with subsection 13.3 of this Section. Approval of the notice of intent shall be in accordance with subsection 13.4 of this Section.

38-2-14. Performance Standards. In addition to the requirements of the Act, the following performance standards shall be applicable to both surface and underground mining operations.

14.1 Signs and Markers. Signs and markers as required in this subsection shall be erected and maintained throughout the life of the permit or term of the specified activities for which they are intended.

(a) Permanent Monument. A permanent monument shall be posted at primary points of ingress and egress on the permit area from public roads and highways. The monument shall consist of a sign constructed of wood, metal or other suitable material measuring two feet by three feet (2′ x 3′) and mounted on a two-inch (2") diameter pipe driven three feet (3′) into the ground with four feet (4′) exposed. Any suitable substitute may be approved. The sign shall clearly indicate the company name, permit number, business address and telephone number.

(b) Perimeter Marker. Prior to initial disturbance, suitable markers made of durable material shall be established to permanently mark the perimeter of the area under permit. The assigned permit number shall be affixed to the permanent perimeter marker. Other markers may be used to delineate the boundaries of the proposed permit area.

(c) Buffer Zone Markers. Appropriate markers will be established along a buffer zone. Markers shall consist of metal or wooden stakes or other suitable devices or methods.

(d) Topsoil Markers. When topsoil or topsoil substitute material is segregated and stockpiled, the stockpiled material shall be marked. Markers shall remain in place until the materials are removed.

(e) Blasting Signs. If blasting is necessary to conduct surface mining operations, the following signs and markers shall be required:

(1) Warning signs shall be conspicuously displayed at all approaches to the blasting site, along haulageways and access roads to the mining operation and at all entrances to the permit area. The sign shall at a minimum be two feet by three feet (2′ x 3′) reading "WARNING! Explosives in Use" and explaining the blasting warning and the all clear signals and the marking of blasting areas and charged holes; and

(2) Where blasting operations will be conducted within one hundred (100) feet of the outside right-of-way of a public road, signs reading "Blasting Area", shall be conspicuously placed along the perimeter of the blasting area.

14.2 Casing and sealing of holes and exposed underground openings.

(a) General requirements. Each prospecting hole, other drillhole or borehole, shaft, well, or other exposed underground opening shall be cased, lined, sealed or otherwise managed as approved by the Director to prevent acid or other toxic drainage from entering ground and surface waters, to minimize disturbance to the prevailing hydrologic balance and to ensure the safety of people, livestock, fish and wildlife, and machinery in the permit and adjacent area. Each prospecting hole, drill hole or borehole well or opening that is uncovered or exposed by mining activities within the permit area shall be permanently closed, unless approved for water monitoring or otherwise managed in a manner approved by the Director. However, at the time of final release of bond, exploratory or monitoring wells must either be sealed in a safe and environmentally sound manner or with the prior approval of the Director, be transferred to another party for further use. The conditions of the transfer shall comply with State and local laws, regulations, and other requirements.

(b) Temporary seals:

(1) Each mine entry which is temporarily inactive, but has a further projected useful service under the approved permit, shall be protected by barricades or other covering devices, fenced, and posted with signs, to prevent access into the entry and to identify the hazardous nature of the opening. These devices shall be periodically inspected and maintained in good operating condition by the person who conducts the underground mining activities.

(2) Each prospecting hole, other drill hole or borehole, shaft, well, and other exposed underground opening which has been identified in the approved permit for use to return underground development waste, coal processing waste or water to underground workings, or to be used to monitor ground water conditions, shall be temporarily sealed until actual use and protected during use by fences, barricades, or other protective devices.

(c) Permanent seals. When no longer needed for monitoring or other use approved by the Director upon a finding of no

adverse environmental or health and safety effects, each shaft, drift, adit, tunnel, prospecting hole, entryway or other opening to the surface from underground shall be capped, sealed, backfilled, or otherwise properly managed in accordance with paragraph (a) of this subsection and in accordance with MSHA regulations at 30 CFR 75.1711. Permanent closure measures shall be designed to prevent access to the mine workings by people, livestock, fish and wildlife, machinery and to keep acid or other toxic drainage from entering ground or surface waters.

14.3 Topsoil.

(a) Removal. Prior to disturbance of an area, topsoil shall be removed from the area to be disturbed in a separate layer and if not immediately redistributed, it shall be segregated and stockpiled in a separate stable location as specified in the preplan. Stockpiled topsoil shall remain in place until used for redistribution unless otherwise approved by the Director. Stockpiled topsoil shall be protected from excessive compaction. Where the removal of vegetative material, topsoil or other materials may result in erosion, the Director may limit the size of the area from which these materials are removed at any one time.

(b) Redistribution. Prior to redistribution of topsoil, the regraded land shall be treated, if necessary, to reduce the potential for slippage of the redistributed material and/or to enhance root penetration. Topsoil and other materials shall be redistributed in a manner that prevents excess compaction and that achieves an approximate uniform, stable thickness, consistent with the approved postmining land uses, contours, soil density, and surface water drainage system. Immediately after redistribution all topsoil areas shall be protected from wind and water erosion.

(c) Top Soil Substitutes. Any substitute material used for topsoiling must be capable of supporting and maintaining the approved postmining land use. This determination of capability shall be based on the results of appropriate chemical and physical analysis of overburden and topsoil. These analyses shall include at a minimum depth, thickness, and areal extent of the substitute structure or soil horizon, pH, texture class, percent coarse fragments and nutrient content. A certification of analysis shall be made by a qualified laboratory stating that:

(1) The proposed substitute material is equally suitable for sustaining vegetation as the existing topsoil;

(2) The resulting soil medium is the best available in the permit area to support vegetation; and

(3) The analyses were conducted using standard testing procedures.

(d) Soil Amendments. Nutrients and soil amendments in the amounts determined by soil tests shall be applied to the redistributed surface soil layer so that it supports the approved postmining land use and meets the revegetation requirements of Section 9 of these regulations. These tests shall include nutrient analysis and lime requirement tests. Results of these tests shall be submitted to the Director with the final planting report as required by these regulations.

14.4 Diversions.

(a) Stream Channel Diversions. Stream channel diversions and stream channels reclaimed after the removal of temporary diversions, shall be designed and constructed so as to restore or approximate the premining characteristics of the original stream channel, including the natural riparian vegetation, to promote recovery and enhancement of the aquatic habitat.

(b) Temporary Diversions. Temporary diversions shall be removed when they are no longer needed to achieve the purpose for which they were approved as long as downstream facilities which were being protected are modified or removed.

(c) Reclamation of Diversions. All temporary diversions shall be removed and reclaimed prior to permit abandonment and all permanent diversions shall comply with the approved reclamation plan and be renovated if necessary prior to abandonment.

14.5 Hydrologic Balance. All surface mining and reclamation activities shall be conducted to minimize the disturbance of the hydrologic balance within the permit and adjacent areas, to prevent material damage to the hydrologic balance outside the permit area, to assure the protection or replacement of water supplies, and to support the approved post mining land use.

(a) Water Quality Control. All water accumulation into the pit shall be removed at least once in a twenty-four (24) hour period whenever water quality or spoil stability may be adversely affected.

(b) Effluent Limitations. Discharge from areas disturbed by surface mining shall not violate effluent limitations or cause a violation of applicable water quality standards. The monitoring frequency and effluent limitations shall be governed by the standards set forth in an NPDES permit issued pursuant to Article 11, Chapter 22 of the Code, the Federal Water Pollution Control Act as amended, 33 U.S.C. 1251 et. seq. and the rules and regulations promulgated thereunder.

(c) Treatment Facilities. Adequate facilities shall be installed, operated and maintained using the best technology currently available in accordance with the approved preplan to treat any water discharged from the permit area so that it complies with the requirements of paragraph (b) of this subsection. Nonmechanical treatment systems may be utilized if flow is infrequent or small and timely and consistent treatment is assured.

(d) Breakthrough. Any surface breakthrough of water caused by the operator during the course of his operations shall be sampled immediately and analyzed for total iron, total suspended solids and pH and if requested by the Director, any other parameter which is characteristic of the discharge. Such analysis shall be made by a competent water analyst or chemist. The original and at least one copy of such analysis shall be retained by the operator, and two (2) copies shall be submitted to the Director. Should said analysis indicate the water quality to be less than the applicable effluent limitations, seals shall be immediately constructed. These seals shall:

(1) Prevent any air from entering the underground mine by way of the breakthrough;

(2) Prevent any air from entering the breakthrough while allowing the water to flow from the breakthrough;

(3) Seal the breakthrough of water so that it cannot flow. Such seals shall be constructed of stone, brick, block, earth or other impervious materials which are acid resistant; or

(4) Alternate methods of handling discharges from breakthroughs may be employed where it can be established that applicable effluent limitations can be met.

(e) Discharges Into Underground Workings.

(1) On active underground mining operations, all reasonable measures shall be taken to intercept all surface water

by the use of diversions, culverts, drainage ditches or other approved methods to prevent water from entering the working area. All surface drainage from the disturbed area must pass through a sediment pond or series of sediment ponds so that discharges from such areas will not cause a violation of water quality standards.

(2) Discharges into underground mine workings are prohibited, nor shall water be discharged from one underground working to another, unless the operator demonstrates to the Director that such activities will:

(A) Not cause, result in, or contribute to a violation of water quality standards and effluent limitations both on or outside the permit area;

(B) Not be discharged without MSHA approval;

(C) Minimize disturbance to the hydrologic balance on the permit area and prevent material damage outside the permit area; and

(D) Be discharged at specified rates as a controlled flow meeting applicable effluent limitations for pH and total suspended solids, except that the pH and total suspended limitations may be exceeded if approved by the Director, and is limited to:

(i) Coal processing waste;

(ii) Fly ash from a coal-fired facility;

(iii) Inert materials used for stabilizing underground mines;

(iv) Underground mine development wastes;

(v) Sludge from an acid mine drainage treatment facility or flue-gas desulfurization; or

(vi) Water.

(f) Co-mingling of Waters. Unless otherwise approved by the Director, water from underground works shall not be co-mingled with surface drainage. When separate treatment facilities are used for discharges from underground works, they shall be designed to adequately treat the anticipated quantity and quality of the raw discharge.

(g) Gravity Flows. No person shall locate openings for new drift mines working in acid or iron producing coal seams in such a manner that the mine will have a gravity discharge. If there will be a gravity discharge and the seam to be mined is listed in subsection 2.4 of these regulations, site specific data must be submitted demonstrating that this seam is not an acid or iron producing seam at this location.

(h) A waiver of water supply replacement granted by a landowner as provided in subsection (b) of Section 24 of the Act shall apply only to underground mining operations, provided that a waiver shall not exempt any operator from the responsibility of maintaining water quality.

14.6 Acid Producing and Toxic Materials.

(a) Acid and Toxic Soils. Drainage from acid-forming and toxic-forming materials into ground and surface water shall be avoided by identifying, burying, blending, segregating, and/or treating spoil or other materials that will be toxic to vegetation or that will adversely affect water quality. Such materials shall be handled and treated in accordance with methods set forth in the approved preplan within thirty (30) days after initial exposure or a lesser period if required by the Director.

(b) Burying Acid and Toxic Materials. Acid-forming or toxic-forming material shall not be buried or stored in proximity to a drainage course or groundwater system.

(c) Treatment of Toxic Material. All exposed coal seams remaining after mining and any acid-forming, toxic-forming, or combustible materials or any other waste materials shall be covered with a minimum of four feet (4') of nontoxic and noncombustible material. Where necessary to protect against upward migration of salts, exposure by erosion, or to provide adequate depth for plant growth, the Director shall specify thicker amounts of cover.

14.7 Monitoring Requirements.

(a) Surface Water. All surface water shall be sampled and analyzed and otherwise monitored in accordance with the approved surface water monitoring plan. Monitoring and analysis shall occur at each monitoring site no less frequently than quarterly. All measurements shall be submitted to the Director and all violations of applicable effluent limitations shall be reported to the Director within five (5) days of receipt of analytical results. The operator shall immediately implement remedial

measures described in the hydrologic reclamation plan. Monitoring shall continue until bond release unless the operator demonstrates that continued monitoring is unnecessary to achieve the purpose of the monitoring plan.

(b) Groundwater. Where adverse impacts to a significant groundwater resource are identified as provided in paragraph (h) of subsection 3.22 of these regulations, the groundwater resources shall be monitored in accordance with the groundwater monitoring plan. Monitoring and analysis shall occur no less frequently than quarterly. All measurements shall be submitted to the Director and all violations of standards established under Section 24 of the Act shall be reported to the Director within five (5) days of receipt of analytical results. The operator shall immediately implement remedial measures described in the hydrologic reclamation plan. Monitoring shall continue until bond release unless the operator demonstrates that continued monitoring is unnecessary to achieve the purposes of the monitoring plan.

(c) Ground Water Monitoring Waivers. - If an applicant can demonstrate by the use of the PHC determination and other available base line hydrologic and geologic information that a particular water-bearing stratum in the proposed permit and adjacent area is not one which serves or may potentially serve as a significant aquifer or ensure the hydrologic balance within the cumulative impact area, monitoring of the stratum may be waived by the Director. Waivers will be considered and granted separately and exclusively for each individual water-bearing stratum unless it is shown by the use of the PHC determination and base line hydrologic and geologic information that all individual water-bearing stratums of concern are hydraulically interconnected and can be waived as a complete unit.

(d) Water Treatment. Where any discharge from the permit area requires treatment during the mining operation in order to meet the applicable effluent limitations, water monitoring of such discharges shall continue following grading approval. If it is established on the basis of such monitoring that the hydrologic balance is being preserved without treatment, the treatment facilities may be removed. A one (1) year history of meeting the applicable effluent limitations shall be adequate to establish that the hydrologic balance is being preserved.

(e) Monitoring Equipment. Monitoring equipment located both at the permit area and at off-site areas shall be properly installed, operated, and maintained during the required monitoring period and removed when no longer required.

14.8 Steep Slope Mining.

(a) Backfilling and Spoil Placement. In addition to other applicable performance standards set forth in the Act and these regulations, the following standards shall apply where the natural slope of the land within the permit area exceeds an average of twenty (20) degrees as measured from the horizontal. These standards except the variance provisions of subsection 14.12 shall also apply to slopes of lesser steepness where the Director has determined, on the basis of soils, climates, method of operation, geology, and other site-specific characteristics, that special measures are required to protect the area below the mining operations from landslides or other hazards. The provisions of this section do not apply when mining is conducted on a flat or gently rolling terrain with an occasional steep slope through which the mining proceeds and leaves a plain or predominantly flat area.

(1) Spoil, debris, or abandoned or disabled equipment shall not be placed on the downslope except as provided in subsection (d) of Section 13 of the Act. Excess spoil may be placed in specified areas designed in the permit application for such placement, if such placement is done in accordance with the provisions of subsection 14.14 of these regulations. Nothing in this section shall prohibit the placement of materials in haulroad or access road fills on slopes steeper than twenty (20) degrees so long as the fills are constructed in accordance with construction specifications set forth in subsection 14.14 of this section. Casting of spoil from a higher seam to a lower seam in multiple seam operations may only occur where: the highwall of the lower seam intersects the outcrop of the upper seam; the lowest seam is mined first or in advance of the upper seams; and minimum bench widths based on slopes are established on the lower bench sufficient to accommodate both spoil placement from the upper seam and bench drainage structures.

(2) The highwall shall be eliminated and the disturbed area graded to the approximate original contour. Spoil material in excess of that required for the reconstruction of the approximate original contour shall be permanently stored in areas designated in the permit for such use and designed and constructed in accordance with subsection 14.14 of this section.

(3) Land above the highwall shall not be disturbed unless the disturbance is necessary to facilitate compliance with the environmental protection standards of this section and Section 12 and 14 of the Act. Standards to be considered which justify such disturbance are the following:

(A) Achieve the approximate original contour;

(B) Control erosion, sedimentation, and water runoff;

(C) Provide access to the area above the highwall for revegetation purposes; or

(D) Comply with safety standards.

(4) The material used to backfill and eliminate the highwall shall be sufficiently compacted or otherwise mechanically stabilized so as to insure stability of the backfill with a static safety factor of 1.3. Placement of woody materials in the fill shall be prohibited unless the Director first determines that the method of placement of woody material will not deteriorate the future stability of the backfilled area. The operator shall at a minimum retain all overburden and spoil on the solid portion of the existing or new benches and backfill and grade the area to the most moderate slope possible.

(5) When mining through natural watercourses or when water is to be directed across or through the backfill, a drainage channel, flumes, culvert, or french drain shall be constructed across or through the backfill in order to insure stability and to prevent erosion. Such drainage channels, flumes, culvert or french drains shall be constructed of nontoxic durable rock, asphalt, pipe, concrete or other similar material. Channels, flumes, culvert, and drains shall be constructed in accordance with the applicable criteria set forth in the applicable requirements of these regulations.

14.9 Auger Operations.

(a) Prohibition and Variance. Augering shall be prohibited by the Director if it is determined that such operations pose a potential hazard to the environment, to the public welfare and safety, to water quality, or to structures or buildings as a result of subsidence.

(b) All auger holes, except as provided in paragraph (c) of this subsection, shall be:

(1) Sealed within seventy-two (72) hours after coal extraction with an impervious and noncombustible material, if the holes are discharging water containing acid-or toxic-forming material. If sealing is not possible within seventy-two (72) hours, the discharge shall be collectively treated commencing

within seventy-two (72) hours after completion to meet applicable effluent limitations and water-quality standards until the holes are sealed; and

(2) Sealed with an impervious non-combustible material, as contemporaneously as practicable with the augering operation, if the holes are not discharging water containing acid-or toxic-forming material.

(c) Auger holes need not be sealed with an impervious material so as to prevent drainage if the Director determines that:

(1) The resulting impoundment of water may create a hazard to the environment or public health or safety, and

(2) The drainage from the auger holes will:

(A) Not pose a threat of pollution to surface water, and

(B) Comply with applicable effluent limitations and water quality standards.

(d) Spacing. Auger mining operations shall be conducted in a manner which maximizes recoverability of mineral reserves remaining after augering. The operator shall, at a minimum, leave areas of undisturbed coal to provide access for future underground mining activities, unless it is established by the operator that the coal reserves have been depleted or are so limited in thickness or extent that it would not be practicable to attempt further recovery.

(e) Subsidence. Auger mining operations shall be conducted in such a manner so as to prevent or minimize subsidence and where material damage occurs the operator shall correct such damage in accordance with the requirements of paragraph (c) subsection 16.2 of these regulations.

(f) Previously Mined Areas. Where auger mining operations affect previously mined areas and the volume of all reasonably available spoil is demonstrated in writing to the Director to be insufficient to completely backfill the highwall, the highwall shall be eliminated to the maximum extent technically practical in accordance with the following criteria:

(1) The person who conducts the auger mining operation shall demonstrate to the Director that the backfill, designed by

a qualified registered professional engineer, has a minimum static safety factor for the stability of the backfill of at least 1.3.

(2) All spoil generated by the auger mining operation and any associated surface coal mining and reclamation operation, and any other reasonably available spoil, shall be used to backfill the area. Reasonably available spoil shall include spoil generated by the mining operation and other spoil located in the permit area that is accessible and available for use and that when rehandled will not cause a hazard to the public safety or significant damage to the environment. For this purpose, the permit area shall include spoil in the immediate vicinity of the auger mining operation.

(3) The coal seam mined shall be covered with a minimum of four (4) feet of nonacid, nontoxic-forming material and the backfill graded to a slope which is compatible with the approved postmining land use and which provides adequate drainage and long-term stability.

(4) Any remnant of the highwall shall be stable and not pose a hazard to the public health and safety or to the environment.

(5) Spoil placed on the outslope during previous mining operations shall not be disturbed if such disturbances will cause instability of the remaining spoil or otherwise increase the hazard to the public health and safety or to the environment.

(6) Auger holes shall not extend closer than five hundred (500) feet to any abandoned or active underground mine workings except as approved in Section 14.13.

14.10. Mountaintop Removal.

(a) Backfilling and Regrading. In addition to the other performance standards set forth in these regulations, the following performance standards will apply where the mountaintop removal method of mining is used:

(1) The final graded top plateau slopes on the mined area shall be less than five (5) horizontal to one (1) vertical so as to create a level plateau or gently rolling configuration. The outslopes of the plateau shall be no steeper than two (2) horizontal to one (1) vertical.

(2) The resulting level or gently rolling contour shall be graded so that water will drain inward from the outslope except at specific points where it is released over the outslope in constructed channels. Such channels shall be protected from erosion and constructed in accordance with paragraph (c) subsection 5.3 of these regulations.

14.11 Procedures to Obtain Inactive Status.

(a) A permittee may not cease mining and reclamation operations for a period of thirty (30) days or more unless the Director finds in writing that all the following requirements have been fully satisfied:

(1) The site is in full compliance with all standards of the program and permit, including but not limited to contemporaneous reclamation, no outstanding violations or penalties exist, and adequate pictorial and narrative description of site conditions to date has been placed in the file;

(2) Where the permit involves the extraction of coal, significant coal reserves for the mine remain;

(3) All disturbed acreage is bonded in accordance with Section 11 and 12 of the Act and Section 11 of these regulations;

(4) All required and necessary backfilling, regrading, revegetation, environmental monitoring, and water treatment activities will continue on the mine site, and adequate provisions for other required and necessary maintenance work for the time period for which the application to cease operations has been made;

(5) The site must be adequately secured to guard against hazards to the public;

(6) A finding based on a detailed showing by the permittee that the cessation is necessary because of temporary market conditions which are likely to change in the period for which the temporarily inactive status is sought;

(7) A color coded mine/progress map accurately depicting the extent and location of all disturbed area, the remaining undisturbed area, and the remaining coal reserves, if any, on the permit at the time of the request. The mine/progress map shall contain a legend which lists the respective acreages and/or tonnages for each of the above-described categories;

(8) Each request for inactive status shall be submitted on forms prescribed by the Director and shall contain a sworn statement as follows: "The information contained in this application is true and correct to the best of my knowledge and belief." Such statement shall be signed by an accountable official of the applicant and shall be notarized; and

(9) Inactive status shall not relieve the operator of any responsibility for complying with the Act, these rules and regulations, or the terms and conditions of the permit.

(b) The Director may grant inactive status for a period not to exceed one-half the permit term if it is determined that the application contains sufficient information to meet all requirements of paragraph (a) of this subsection: Provided, That where the applicant documents in the application that the operations will become inactive for more than thirty (30) days, but will be reactivated on an intermittent and/or irregular basis during the approval period, such operations are not required to reapply for inactive status except at the termination date of the initial term of approval: Provided however, That the Director may review the approval of inactive status during its term and require updated information pursuant to paragraph (a) of this subsection, and based upon this or other information, may modify or rescind the approval prior to its initial termination date.

(c) The Director shall within five (5) days of receipt of a request for inactive status, post the application and supporting documentation in an appropriate public office in the area of the permit, and shall notify any persons who have requested notification of a request for inactive status on the relevant permit, that a request has been received. The Director shall provide for public comment and an opportunity for an informal conference. If a request for an informal conference is received within thirty (30) days of the Division's receipt of the request, the Director shall schedule the conference in the area of the permit.

(d) Within thirty (30) days preceding the expiration of the initial time period granted for inactive status, the permittee may request an extension of the approved inactive period, and at that time must submit current information meeting the requirements of paragraph (a). The Director shall make the same findings and provide for the same public review process before granting a request for extension. In no event may the total time granted for inactive status for any given surface coal extraction permit be in excess of three (3) years, provided, That further

extensions may be granted on the basis of a showing by the permittee that such extension is necessary by reason of:

(1) Litigation precluding reactivation of the site;

(2) Labor strikes; or

(3) Substantial equipment necessary for extraction, e.g. draglines, shovels, etc., remain on the site and are being maintained in working order.

(e) The three (3) year limitation on inactive status for surface mines shall not apply to preparation plants or load-out facilities, whether or not they are associated with a surface coal extraction permit.

(f) The provisions set forth in this subsection shall be applicable to all surface mining and reclamation operations which currently have approved inactive status on the effective date of these regulations.

14.12 Variance From Approximate Original Contour Requirements.

(a) Procedures to Obtain a Variance. The Director may grant a variance from the requirements for restoring the mined land in steep slope areas to approximate original contour under the following terms and conditions:

(1) The permit area is located on steep slopes as defined in paragraph (a) of subsection 14.8 of these regulations;

(2) The alternative postmining land use requirements of subsection 7.3 of these regulations are met;

(3) All other applicable requirements of the Act and these regulations, except for those relating to approximate original contour, are met;

(4) All highwalls are completely backfilled in a manner which results in a static safety factor of 1.3;

(5) Only spoil not necessary to achieve the postmining land use may be removed from the mine bench;

(6) The watershed of the permit and adjacent area will be improved by reducing pollutants, environmental impacts, or

flood hazards; provided that, the watershed will be deemed improved only if:

(A) The amount of total suspended solids or other pollutants discharged to ground or surface water from the permit area will be reduced, so as to improve the public or private uses or the ecology of such water, or flood hazards within the watershed containing the permit area will be reduced by reduction of the peak flow discharge from precipitation events or thaws; and

(B) The total volume of flow from the proposed permit area, during every season of the year, will not vary in a way that adversely affects the ecology of any surface water or any existing or planned use of surface or ground water.

(7) Appropriate Federal, State and local government agencies have an opportunity to review and comment on the proposed postmining land use to determine that the potential use is shown to constitute an equal or better economic or public use;

(8) The proposed use is designed and certified by a qualified registered professional engineer in conformance with professional standards established to assure the stability, drainage, and configuration necessary for the intended use of the site; and

(9) The surface land owner(s) of the permit area has requested in writing that a variance be granted to achieve the approved alternative postmining land use.

14.13 MSHA Approval. No mining shall occur within five hundred (500) feet of an underground mine not totally abandoned without approval by the Federal Mine Safety and Health Administration.

14.14 Disposal of Excess Spoil.

(a) General.

(1) Spoil not required to achieve the approximate original contour shall be transported to and placed on designated disposal sites within the permit area;

(2) All excess spoil shall be placed in a controlled manner so as to minimize the adverse effects of leachate and surface water runoff from the fill on surface and groundwater;

(3) Coal processing wastes and underground development waste shall not be placed in such fills unless the waste is placed in accordance with Section 22 of these regulations, contains no acid producing or toxic forming materials and is of the proper characteristics so as to assure the design stability of the fill;

(4) Any excess spoil disposal in an underground mine shall be done in accordance with a plan approved by the Mine Safety and Health Administration in accordance with design standards of paragraph (s), subsection 22.3 of these regulations;

(5) Excess spoil that is acid- or toxic-forming or combustible shall be adequately covered with nonacid, nontoxic and noncombustible material, or treated, to control the impact on surface and ground water in accordance with subsection 14.6 and 14.7 of this section, to prevent sustained combustion, and to minimize adverse effects on plant growth and the approved postmining land use;

(6) Slope protection shall be provided to minimize surface erosion at the site. All disturbed areas, including diversion channels that are not riprapped or otherwise protected, shall be revegetated upon completion of construction; and

(7) The final configuration of the fill shall be suitable for the approved post mining land use.

(b) Certification - Inspections and Reporting. Certification of all excess spoil fills shall be required as follows:

(1) The fill and appurtenant structures shall be designed in accordance with professional design standards, which meet the requirements of this subsection, and certified by a registered professional engineer experienced in the design of earth and rock fill embankments;

(2) During construction, the fill shall be inspected quarterly for stability by a registered professional engineer experienced in the construction of earth or rock fills or other qualified professional specialist working under the direction of a professional engineer experienced in the construction of earth or rock fills. Regular inspections are also required during placement and compaction of fill materials and during critical construction periods such as foundation preparation, underdrain placement, installation of surface drainage systems, and construction of rock toe buttresses. Within two (2) weeks

following completion of the inspections, a report certified by the registered professional engineer shall be submitted to the Director. The certified report shall contain a statement that the fill is being constructed and maintained as designed in accordance with the approved plan and these regulations. The report will also note any instances of apparent instability, structural weaknesses, and other hazards. The report on the drainage system and protective filters shall include color photographs taken during and after construction, but before the underdrains are covered with excess spoil. Color photographs shall be of sufficient size and number to provide a relative scale and to clearly identify the site. If the underdrains are constructed in phases, each phase must be certified separately. If excess durable rock spoil is placed such that the underdrain system is constructed simultaneously with excess spoil placement by the natural segregation of dumped materials, color photographs of the underdrains must be taken as they are formed. All color photographs shall be of adequate size and number to provide a relative scale and to clearly identify the site. A copy of the certified report shall be maintained at the mine site;

(3) After total completion of the fill, a certification form shall be completed and submitted to the Director by the registered professional engineer overseeing construction of the fill; and

(4) In addition to the requirements of subparagraph (2) of this paragraph, certification forms for durable rock fills shall be accompanied by the following:

(A) A statement attesting that the fill contains no more than twenty-percent (20%) non-durable material;

(B) A statement attesting that foundation preparation is proceeding in accordance with the design plans;

(C) A statement that prohibited materials are not being placed, deposited, or disposed of into the fill area; and

(D) A statement that sediment control measures are constructed and being maintained in accordance with the approved design plans and the terms and conditions of the permit.

(c) Location. Excess spoil not required to achieve the approximate original contour on the permit areas may be deposited outside the permit area if the following conditions are met:

(1) The excess spoil is deposited on another permit area; or

(2) The excess spoil is placed on an abandoned mine land project conducted under the Abandoned Mine Land Program where:

(A) A reclamation contract is in effect;

(B) The project will result in improved environmental, aesthetic, or safety conditions; and

(C) The project is designed and constructed in accordance with the Act and these regulations.

(d) Disposal of Excess Spoil on Existing Benches. Spoil material not required to return the area to the approximate original contour may be placed on an existing bench if the following conditions are met:

(1) Sufficient foundation investigations and laboratory analysis of foundation materials which include the effects of underground workings below the solid bench, shall be performed. Based on information obtained from such investigations and analysis, the Director may require modification of design requirements from the spill. Fills which are proposed on pre-existing benches where the slope of the solid bench exceeds ten percent (10%) toward the outslope shall meet the design requirements of paragraph (f), subsection 14.14, of this section.

(2) All vegetation and organic material shall be removed from the disposal area prior to placement of excess spoil. All topsoil shall be removed and redistributed or stockpiled in accordance with subsection 14.3 of this section. All excess spoil shall be transported and placed only on the solid portion of the bench in a controlled manner in horizontal lifts not exceeding four (4) feet in thickness. The spoil must be compacted or otherwise mechanically stabilized to achieve a static safety factor of 1.3. The area shall be backfilled and graded to achieve the most moderate slope possible which does not exceed the angle of repose. The final graded configuration shall be such that the surface and subsurface drainage is compatible with the natural surroundings and the approved postmining land use. Terraces may be constructed on the outslope if required for stability, control of erosion, or to conserve soil moisture. The grade of the outslopes between terraces shall not be steeper than two (2) horizontal to one (1) vertical (50 percent).

(3) No permanent impoundments are allowed on the completed fill. Small depressions may be allowed if they are needed to retain moisture, minimize erosion, create and enhance wildlife habitat, or assist revegetation; and if they are not incompatible with the stability of the fill.

(4) If the disposal area contains springs, natural or manmade water courses, or wet weather seeps, the fill design shall include diversions and underdrains as necessary to control erosion, prevent water infiltration into the fill, and ensure stability. Diversions shall comply with the requirements of paragraph (c) subsection 5.3 and subsection 14.4 of these regulations. Underdrains shall be designed and constructed in accordance with subparagraph (1), paragraph (e), subsection 14.14 of these regulations.

(5) Underdrains shall consist of durable rock or pipe, be designed and constructed using current, prudent engineering practices and meet any design criteria established by the Act, these regulations, and the terms and conditions of the permit.

(6) The existing highwall shall be eliminated to the maximum extent technically practicable.

(7) Disposal of excess spoil from an upper actively mined bench to a lower pre-existing bench by means of gravity transport may be approved by the Director provided that:

(A) The gravity transport courses are determined on a site-specific basis by the operator as part of the permit application and approved by the Director to minimize hazards to health and safety and to ensure that damage will be minimized between the benches, outside the set course, and downslope of the lower bench should excess spoil accidentally move;

(B) All gravity transported excess spoil, including that excess spoil immediately below the gravity transport courses and any pre-existing spoil that is disturbed, is rehandled and placed in horizontal lifts in a controlled manner, concurrently compacted as necessary to ensure mass stability and to prevent mass movement, and graded to allow surface and subsurface drainage to be compatible with the natural surroundings and to ensure a minimum long-term static safety factor of 1.3. Excess spoil on the bench prior to the current mining operation that is not disturbed need not be rehandled except where necessary to ensure stability of the fill;

(C) A safety berm is constructed on the solid portion of the lower bench prior to gravity transport of the excess spoil. Where there is insufficient material on the lower bench to construct a safety berm, only that amount of excess spoil necessary for the construction of the berm may be gravity transported to the lower bench prior to construction of the berm; and

(D) Excess spoil shall not be allowed on the downslope below the upper bench except on designated gravity transport courses properly prepared in accordance with subsection 14.3 of this section. Upon completion of the fill, no excess spoil shall be allowed to remain on the designated gravity transport course between the two benches and each transport course shall be reclaimed in accordance with the requirements of the Act, these regulations, and the approved permit.

(e) Valley Fills. Where the excess spoil disposal site is located in a valley, the following criteria shall be met:

(1) If the fill area contains springs, natural water courses, or wet weather seeps, lateral underdrains shall be constructed from the wet areas to the rock core in such a manner that infiltration and entrapment of water within the fill will be prevented. Underdrains shall consist of durable rock or pipe, be designed and constructed using current, prudent engineering practices which will meet any design criteria established by the Director. The underdrain system and the rock core shall be designed to carry the anticipated seepage of water due to rainfall away from the excess spoil fill and from seeps and springs in the foundation of the disposal area and shall be protected from piping and contamination by an adequate filter. Rock underdrains shall be constructed of durable, nonacid, nontoxic-forming rock (e.g., natural sand and gravel, sandstone, limestone, or other durable rock) that does not slake in water or degrade to soil material, and which is free of coal, clay or other nondurable material. Perforated pipe underdrains shall be corrosion resistant and shall have characteristics consistent with the long-term life of the fill.

(2) The fill shall be designed to assure a long-term static safety factor of 1.5 or greater.

(3) The outer slope or face of the valley fill shall be no steeper than two (2) horizontal to one (1) vertical with terraces constructed at a maximum of each fifty (50) feet vertical rise above the toe of the fill. The bench width of each terrace shall be no less than twenty (20) feet with a three (3)

to five (5) percent slope toward the face and a one (1) percent slope toward the rock core located near the center of the valley fill.

(4) A rock core chimney drain may be utilized for fills that will come to the level of the ridge line with no natural drainage area above the fill. A rock core chimney drain may also be used for fills that do not come to the ridge line provided that the fill does not contain more than two hundred and fifty thousand (250,000) cubic yards of material unless located in an area where the valley floor is always above the local water table. Runoff from areas above and adjacent to the fill shall not be allowed to flow onto the fill surface, and shall be diverted into stabilized diversion channels, designed and constructed to safely pass the peak runoff from a 100-year, 24-hour precipitation event.

(5) The central rock core or "chimney drain" shall lie in the apex of the valley and extends throughout the depth and length of the fill. The rock core shall be designed and constructed in accordance with the following criteria:

(A) The rock core shall consist of durable non-acid producing or toxic forming rock of a minimum average diameter of twelve (12) inches with no more than ten (10) percent of the core material consisting of fines, and which is free of coal, clay or other non-durable material.

(B) The minimum width of the rock core shall be sixteen feet, and shall be protected by a filter system to ensure proper long-term functioning which is designed and constructed using current, prudent engineering practices. If no filter is designed for the underdrains, a rock core of sufficient capacity shall be provided to allow for partial plugging of the drain and/or rock core.

(C) The core shall be constructed progressively and concurrently with each lift of the valley fill.

(D) The finished surface of the rock core shall form a trapezoidal channel capable of permitting the peak runoff of a one-hundred (100) year twenty-four (24) hour precipitation event.

(6) Where valley fills are designed for construction without a rock core, an underdrain shall be used. The underdrain shall be designed and constructed in accordance with standards set forth in subparagraph (1) of this paragraph. Surface runoff

from above and across the surface of the fill shall be carried through a surface diversion system capable of handling the peak runoff from a one-hundred (100) year twenty-four (24) hour precipitation event.

(7) Sufficient foundation investigations and laboratory analysis of foundation materials which include the effects of underground workings, shall be performed in order to develop the necessary plans, design specifications, and standards set forth in the approved permit. Based on information obtained from such investigations and analysis, the Director may require modification of the design requirements of the fill.

(8) Areas upon which a valley fill is to be constructed shall first be progressively cleared of all trees, brush, shrubs, and other organic material which is above ground level; provided that, in critical foundation areas, including, but not limited to, the toe of the fill, seepage or underdrain areas, and downstream portions of the fill that provide a resisting force against massive slope failure, all organic material both above and below the ground surface must be removed. This material shall be disposed of outside the fill area. No more than three (3) acres, excluding roadways, shall be cleared until the first lift of the valley fill is completed.

(9) The valley fill shall be constructed in lifts not exceeding four (4) feet in thickness beginning at the toe of the fill. Where fills are designed and constructed using lifts exceeding four (4) feet in thickness, the design plans and specifications shall specify the thickness of the lifts. The operator shall demonstrate how and the engineer shall certify that such thickness will insure stability and meet all safety and environmental protection standards.

(10) During and after construction, grading may drain surface water away from the outslope of the fill and toward the rock core with a maximum slope of three percent (3%). A drainage pocket shall be maintained at the head of the fill at all times to intercept and direct surface runoff to the rock core. In no case shall this pocket have a potential for impounding more than ten thousand (10,000) cubic feet of water. No other impoundments may be constructed on the fill.

(11) Where the toe of the spoil rests on a downslope which is in excess of thirty-six (36) percent, keyway cuts or rock toe buttresses shall be constructed of sufficient size so as to ensure stability of the fill as determined by stability analysis.

(f) Side Hill Fills.

(1) Side hill fills shall be constructed on the most stable and moderate slopes available with the natural downslope at the toe of the fill not to exceed thirty-six (36) percent. Where possible, the toe of the fill shall rest on or above a natural terrace, bench or berm in a manner which will provide additional stability and prevent mass movement.

(2) Each design shall be based on the results of sufficient geotechnical investigation of the construction site. The investigations shall include such factors as geologic conditions, soil characteristics, depth of bedrock, springs, seeps and groundwater flow, and a description of materials to be placed in the fill.

(3) The design and construction of all side hill fills must be certified by a registered professional engineer.

(4) If the fill area contains springs, natural water courses or wet weather seeps, lateral drains shall be constructed from the wet areas in the same manner as set forth in subparagraph (1) paragraph (e) of subsection 14.14 of these regulations.

(5) All areas upon which the fill is to be constructed shall be progressively cleared of all trees, brush, shrubs, and other organic material which is above ground level; provided that, in critical foundation areas, including, but not limited to, the toe of the fill, seepage or underdrain areas, and downstream portions of the fill that provide a resisting force against massive slope failure, all organic material both above and below the ground surface must be removed. This material shall be disposed of outside the fill area.

(6) The fill shall be constructed in concurrently compacted lifts not exceeding four (4) feet in thickness.

(7) The fill shall be designed and constructed to assure a static safety factor of at least 1.5.

(8) The outer slope or face of the fill shall be no steeper than two (2) horizontal to one (1) vertical. Terraces shall be constructed on the face of the fill at each fifty (50) feet vertical rise above the toe of the fill. The terraces shall be a minimum of twenty (20) feet wide and shall slope three (3) to five (5) percent toward the face with a lateral slope of one

(1) percent to a discharge channel capable of passing a one hundred (100) year twenty-four (24) hour precipitation event.

(9) Surface water runoff from the fill and from surrounding areas shall be diverted away from the fill and into stabilized channels designed to pass safely the runoff from a one-hundred (100) year, twenty-four (24) hour precipitation event.

(10) No permanent impoundments may be constructed on the completed fill except that small depressions may be allowed if they are needed to retain moisture, minimize erosion, create and enhance wildlife habitat, or assist revegetation; and if they are not incompatible with the stability of the fill.

(g) Durable Rock Fills.

(1) The Director may approve the design, construction, and use of a single lift fill consisting of at least eighty (80) percent durable rock if it can be determined, based on information provided by the operator, that the following conditions exist:

(A) Examination of core borings and the geologic column show that the overburden consists of durable sandstone, limestone, or other durable material in sufficient thickness and amounts to generate spoil material that is eighty (80) percent or greater durable rock. Where the fill will contain non-cemented clay shale, clay spoil, or other nondurable material, such material must be mixed with the durable rock in a controlled manner such that no more than twenty (20) percent of the fill volume is not durable rock. Tests shall be performed by a Registered Professional Engineer and approved by the Director to demonstrate that no more than twenty (20) percent of the fill volume is not durable rock.

(B) The durable rock shall not consist of acid-producing or toxic-forming material, will not slake in water, and will not degrade to soil material. For purposes of this paragraph only, soil material means material of which at least fifty (50) percent is finer than 0.074 mm, which exhibits plasticity, and which meets the criteria for group symbol ML, CL, OL, MH, CH, or OH, as determined by the Unified Soil Classification System (ASTM D-2487).

(C) The toe of the fill will rest on natural slopes no steeper than twenty (20) percent.

(2) The fill shall be designed based on the results of sufficient geotechnical investigations of the construction site. The investigation shall include such factors as geologic conditions, soil characteristics, depth to bedrock, location of springs, seeps and groundwater flow, potential effects of subsidence and a description of materials to be placed in rock cores and drains.

(3) The design and construction of all durable rock fills must be certified by a registered professional engineer experienced in design and construction of earth and rock embankments.

(4) The foundation of the fill and the fill shall be designed to assure a long-term static safety factor of 1.5 or greater, and meet an earthquake safety factor of 1.1.

(5) The outer slope or face of the fill shall be no steeper than two (2) horizontal or one (1) vertical (2:1). Terraces shall be constructed on the fill at a maximum of every fifty (50) feet in vertical rise above the toe of the fill. The terraces shall be no less than twenty (20) feet in width and slope toward the fill at a three (3) to five (5) percent grade and slope laterally at one (1) percent grade to discharge channels capable of passing the peak runoff for a one-hundred (100) year twenty-four (24) hour precipitation event.

(6) All areas upon which the fill is to be placed shall first be progressively cleared of all trees, brush, shrubs and other organic material which is above ground level; provided that, in critical foundation areas, including, but not limited to, the toe of the fill, seepage or underdrain areas, and downstream portions of the fill that provide a resisting force against massive slope failure, all organic material both above and below the ground surface must be removed. This material shall be disposed of outside the fill area.

(7) The underdrain system may be constructed simultaneously with excess spoil placement by the natural segregation of dumped materials; provided, that the resulting underdrain system shall be capable of carrying anticipated seepage of water due to rainfall away from the excess spoil fill and from seeps and springs in the foundation of the disposal area and the other requirements for drainage control shall be met. If the underdrain system is not constructed by natural segregation of dumped material, it shall be designed and constructed in accordance with subparagraph (1), paragraph (e), of this subsection.

(8) Surface water runoff from areas above and adjacent to the fill shall be diverted into properly designed and constructed stabilized diversion channels which have been designed using best current technology to safely pass the peak runoff from a 100 year, 24-hour precipitation event. The channel shall be designed and constructed to ensure stability of the fill, control erosion, and minimize water infiltration into the fill.

(9) The grade of the top surface of the completed fill shall not exceed five (5) percent and shall slope toward the drainage channel.

(10) No permanent impoundments may be constructed on the completed fill except that small depressions may be allowed if they are needed to retain moisture, minimize erosion, create and enhance wildlife habitat, or assist revegetation; and if they are not incompatible with the stability of the fill.

(11) Notwithstanding any other provisions of these regulations or the terms and conditions of a permit to the contrary, additional storage capacity or sediment control measures may be required through permit revision if sediment removal performance of the structure(s) during operation and construction of the fill is found to be deficient to the point that significant non-compliance with applicable effluent limits or water quality standards results.

(12) The following materials are hereby prohibited from being placed, deposited, or disposed of into a durable rock fill or durable rock fill area:

(A) Surface soils, provided that such soils used to establish vegetation on the surface of the fill are not prohibited; provided, however, that such soils may be placed in the fill if accounted for in design and construction as nondurable material and such soils are not deposited in critical zones of the fill;

(B) Mud, silt, or sediment cleaned or removed from mining pits, roadways, sediment control structures and/or other areas of the operation;

(C) Vegetative or organic materials cleared or grubbed from the permit or other areas;

(D) Non-coal wastes; and

(E) Coal refuse.

14.15 Contemporaneous Reclamation Standards.

(a) General. This subsection establishes general performance standards relating to backfilling, regrading, and stabilization for all surface mining operations within the State. The mining and reclamation plan for each operation shall reflect these standards in describing how the mining operations and reclamation operations are to be coordinated to minimize total land disturbance and to keep reclamation operations as contemporaneous as possible with the advance of mining operations. Particular emphasis must be given to (1) limiting the size and number of excess spoil disposal fills; (2) locating and configuring excess spoil disposal fills in such a way so as to minimize land disturbance; (3) controlled handling and placement of all spoil material; and (4) the timing and sequence of backfilling and regrading operations which will minimize the ratio of disturbed and unreclaimed area versus undisturbed and reclaimed area. All surface mining operations shall be conducted in such a manner so as to comply with the approved reclamation plan and the standards set forth in this subsection.

Spoil returned to the mined-out area shall be backfilled and graded to the approximate original contour with all highwalls eliminated. Backfilling and grading of all disturbed areas will be done in a manner which eliminates spoil piles and depressions, returns all slopes to the angle of repose or lesser slopes so as to achieve a static safety factor of 1.3 or greater, minimizes erosion and water pollution both off and on the site, supports the postmining land use, and covers all coal seams, acid-producing or toxic-forming materials, and combustile material with non-toxic and non-combustible material.

(b) Time, Distance, and Acreage Limits. Grading, backfilling, and water management practices shall be kept current as follows:

(1) Where the operation consists of single seam contour mining only (no augering) on steep or non-steep slopes disturbed and unreclaimed acreage including all excess spoil disposal sites should not exceed thirty-five (35) acres, and grading and backfilling shall follow the mineral removal by a period not to exceed sixty (60) days or a distance of one thousand five hundred (1,500) linear feet.

(2) Where the operation consists of single seam contour mining and augering or highwall mechanical mining on

steep or non-steep slopes, disturbed and unreclaimed acreage including all excess spoil disposal sites shall not exceed fifty (50) acres, and the augering or highwall mechanical mining shall follow the advance of the mining pit by a period not to exceed sixty (60) days. The grading and backfilling shall follow the augering or highwall mechanical mining by a period of not more than thirty (30) days or a distance of not more than one thousand five hundred (1,500) linear feet; provided, That in no event shall more than three thousand (3,000) linear feet of pit be exposed at any time.

(3) Where the operation consists of augering or highwall mechanical mining only on steep or non-steep slopes, disturbed and unreclaimed acreage shall not exceed thirty-five (35) acres, and the grading and backfilling shall follow the augering or highwall mechanical mining by a period not to exceed thirty (30) days or a distance of not more than one thousand (1,000) linear feet.

(4) Where the operation consists of area mining only, on slopes which are on the average less than 20 degrees (20°) in steepness, disturbed and unreclaimed acreage including excess spoil disposal sites shall not exceed one hundred (100) acres or fifty (50) percent of the permit area, whichever is less, and backfilling and grading shall not be more than two spoil ridges or mining cuts behind the pit being worked. The maximum linear feet of open pit shall not exceed three thousand (3,000) feet at any time and backfilling and grading shall follow mineral removal within one hundred eighty (180) days.

(5) Where the operation consists of multiple seam mining along the topographic contour on steep or non-steep slopes, and where the coal seams running through the mountain, hill, or ridge are only partially removed, disturbed and unreclaimed acreage including excess spoil disposal sites, shall not exceed two hundred (200) acres or fifty (50) percent of the permit area, whichever is less. Augering and/or highwall mechanical mining which becomes a part of these types of operations shall be incorporated into the operation in such a fashion so as to meet the subject acreage limitations.

(6) Where the mining operation consists of removing entire coal seam(s) running through the upper fraction of a mountain, hill or ridge, or removing entire coal seam(s), running through the upper fraction of a mountain, hill, or ridge in conjunction with partially removing lower seam(s) along the topographic contour, the following contemporaneous reclamation requirements apply:

(A) Disturbed and unreclaimed acreage, including excess spoil disposal sites, shall not exceed thirty-five (35) percent of the total permit acreage, or three hundred (300) acres, whichever is less.

The ratio of disturbed and unreclaimed acreage versus reclaimed or undisturbed acreage shall be shown on progress maps submitted annually or as otherwise required by the Director. The subject ratios shall be verified by the Director to be consistent with the mining and reclamation plan on the next regular inspection following receipt of the progress map.

(B) On operations which utilize draglines with a bucket capacity of greater than forty-five (45) cubic yards, the requirements of subpart (A) of this subparagraph is waived and the following contemporaneous reclamation requirements apply:

(i) Incorporate into the required mining and reclamation plan a detailed site specific description of the timing, sequence, and areal extent of each progressive phase of the mining and reclamation operation which reflects how the mining operations and the reclamation operations will be coordinated so as to minimize the amount of disturbed, unreclaimed area, and to quickly establish and maintain a specified ratio of disturbed versus reclaimed area throughout the life of the operation;

(ii) Prestripping or benching operations will not exceed four hundred (400) acres for any single permit;

(iii) Rough backfilling and regrading shall be completed within one hundred (180) days following coal removal and not more than four (4) spoil ridges behind the pit being worked, the spoil from the active pit constituting the first spoil ridge; and

(iv) The ratio of disturbed acreage versus reclaimed or undisturbed acreage shall be shown on progress maps submitted annually or as otherwise required by the Director. The subject ratios shall be verified by the Director as being consistent with the mining and reclamation plan on the next regular inspection following receipt of the progress map.

(c) Reclaimed Area. For purposes of this subsection, reclaimed acreage shall be that portion of the permit area which has at a minimum been fully regraded in accordance with the reclamation plan, and meets the requirements of Phase I bond release. Semi-permanent ancillary facilities (haulroads,

drainage control systems, parking areas, maintenance, storage and supply areas, etc.), and areas cleared but not grubbed shall not be included in the calculation of disturbed area, provided, That such areas have appropriate drainage control systems in place.

(d) Applicability. Permit applications which are pending approval after May 1, 1993 shall not be issued without a mining and reclamation plan which is consistent with the criteria set forth in this subsection.

After May 1, 1993, the mining and reclamation plan for all active mining operations must be consistent with the applicable criteria set forth in this subsection. Where permit revisions are necessary to satisfy this requirement, such revisions shall be prepared and submitted to the Director for approval by July 1, 1993. Full compliance with the revised mining and reclamation plan shall be accomplished within twelve (12) months from the date of the Director's approval.

After May 1, 1993, the mining and reclamation plan for mining operations which have approved inactive status must be consistent with the applicable criteria of this subsection. Where permit revisions are necessary to satisfy this requirement, such revisions must be approved by the Director prior to reactivation of the operation.

(e) Revegetation. Revegetation shall be kept current by establishing a temporary or permanent vegetative cover on regraded areas by the end of the first growing season and a permanent cover by the end of the second growing season.

(f) Variance - Permit Applications. The Director may grant approval of a mining and reclamation plan for a permit which seeks a variance to one or more of the standards set forth in this subsection, if on the basis of site specific conditions and sound scientific and/or engineering data, the applicant can demonstrate that compliance with one or more of these standards is not technologically or economically feasible. The variance request shall be in writing and must contain the following elements:

(1) A description of the specific standard(s) for which a variance is sought.

(2) A statement with supporting documentation and scientific and/or engineering data which describes how site specific conditions make compliance with the standard(s) technologically or economically infeasible.

(3) Specific alternative standards of the same type and specificity as the standards for which a variance is sought.

(4) A sequential plan showing all phases of the proposed mining and reclamation operation to include specific time frames for completing each phase. The plan must at a minimum describe at what point reclamation operations will commence and how such operations will advance in relation to the mining operations throughout the remainder of operational sequence.

(g) Variance - Existing and Ongoing Operations. The Director may grant approval of a request for a variance to the standards set forth in this subsection for existing and/or ongoing surface mining operations only after all reasonable steps have been taken by the operator to minimize land disturbance and if the operator demonstrates, through an on-site evaluation and sound scientific and/or engineering data, that compliance with these standards are technologically or economically infeasible. The variance request will be in writing and shall contain the elements set forth in paragraph (f) of this subsection.

(h) Reclamation Equipment. Operable regrading equipment shall be kept on the permit area until satisfactory completion of grading of all disturbed area unless otherwise approved.

(i) Exemptions. Backfilling and grading may be postponed on a permit where surface mining operations and underground mining operations are proposed on the same area; provided that all requirements set forth in paragraph 16, subsection (b), Section 13 of the Act are met. Where the underground mining permit is terminated or revoked, backfilling, regrading, and reclamation shall commence and proceed in accordance with the provisions of paragraph (b), subsection 15.2 of these regulations.

(j) Grading Outer Spoil. All outer spoil shall be graded so as to blend into the adjoining undisturbed lands. All spoil must be placed in such a manner that the final surface of all slopes is mechanically stabilized using tracked equipment or other equivalent means.

(k) Erosion Control. All disturbed areas shall be regraded and stabilized in a manner which effectively controls erosion.

(l) Regraded Drainage Control. Drainage control on regraded areas shall prevent excessive erosion or additional contributions of suspended solids to the receiving stream, ensure

area, provided, That such areas have appropriate drainage control systems in place.

(d) Applicability. Permit applications which are pending approval after May 1, 1993 shall not be issued without a mining and reclamation plan which is consistent with the criteria set forth in this subsection.

After May 1, 1993, the mining and reclamation plan for all active mining operations must be consistent with the applicable criteria set forth in this subsection. Where permit revisions are necessary to satisfy this requirement, such revisions shall be prepared and submitted to the Director for approval by July 1, 1993. Full compliance with the revised mining and reclamation plan shall be accomplished within twelve (12) months from the date of the Director's approval.

After May 1, 1993, the mining and reclamation plan for mining operations which have approved inactive status must be consistent with the applicable criteria of this subsection. Where permit revisions are necessary to satisfy this requirement, such revisions must be approved by the Director prior to reactivation of the operation.

(e) Revegetation. Revegetation shall be kept current by establishing a temporary or permanent vegetative cover on regraded areas by the end of the first growing season and a permanent cover by the end of the second growing season.

(f) Variance - Permit Applications. The Director may grant approval of a mining and reclamation plan for a permit which seeks a variance to one or more of the standards set forth in this subsection, if on the basis of site specific conditions and sound scientific and/or engineering data, the applicant can demonstrate that compliance with one or more of these standards is not technologically or economically feasible. The variance request shall be in writing and must contain the following elements:

(1) A description of the specific standard(s) for which a variance is sought.

(2) A statement with supporting documentation and scientific and/or engineering data which describes how site specific conditions make compliance with the standard(s) technologically or economically infeasible.

(3) Specific alternative standards of the same type and specificity as the standards for which a variance is sought.

(4) A sequential plan showing all phases of the proposed mining and reclamation operation to include specific time frames for completing each phase. The plan must at a minimum describe at what point reclamation operations will commence and how such operations will advance in relation to the mining operations throughout the remainder of operational sequence.

(g) Variance - Existing and Ongoing Operations. The Director may grant approval of a request for a variance to the standards set forth in this subsection for existing and/or ongoing surface mining operations only after all reasonable steps have been taken by the operator to minimize land disturbance and if the operator demonstrates, through an on-site evaluation and sound scientific and/or engineering data, that compliance with these standards are technologically or economically infeasible. The variance request will be in writing and shall contain the elements set forth in paragraph (f) of this subsection.

(h) Reclamation Equipment. Operable regrading equipment shall be kept on the permit area until satisfactory completion of grading of all disturbed area unless otherwise approved.

(i) Exemptions. Backfilling and grading may be postponed on a permit where surface mining operations and underground mining operations are proposed on the same area; provided that all requirements set forth in paragraph 16, subsection (b), Section 13 of the Act are met. Where the underground mining permit is terminated or revoked, backfilling, regrading, and reclamation shall commence and proceed in accordance with the provisions of paragraph (b), subsection 15.2 of these regulations.

(j) Grading Outer Spoil. All outer spoil shall be graded so as to blend into the adjoining undisturbed lands. All spoil must be placed in such a manner that the final surface of all slopes is mechanically stabilized using tracked equipment or other equivalent means.

(k) Erosion Control. All disturbed areas shall be regraded and stabilized in a manner which effectively controls erosion.

(1) Regraded Drainage Control. Drainage control on regraded areas shall prevent excessive erosion or additional contributions of suspended solids to the receiving stream, ensure

safety and conserve soil moisture. Drainage control measures may include, but are not limited to, constructed drainways, flumes and riprap channels, tracking in, small depressions or other devices.

(m) Coal Processing Waste Disposal. Where approval for placing coal processing waste in the backfill has been granted, such placement shall be done in accordance with the compaction requirements of paragraph (p), subsection 22.3 of these regulations. The final graded slope shall not exceed either the angle or repose or such other lesser slope as is necessary to achieve a minimum long-term static safety factor of 1.3 and to prevent slides.

(1) The coal processing waste ~~will not contain acid-producing or toxic-forming material and~~ shall be placed in a controlled manner so as to:

~~(1)~~ **(A)** Minimize adverse effects of leachate and surface-water runoff on surface and ground water quality and quantity;

~~(2)~~ **(B)** Ensure mass stability and prevent mass movement during and after construction;

~~(3)~~ **(C)** Ensure that the final disposal facility is suitable for reclamation and revegetation compatible with the natural surroundings and the approved postmining land use;

~~(4)~~ **(D)** Not create a public hazard; and

~~(5)~~ **(E)** Prevent combustion.

(2) The coal processing waste will not be placed in the backfill unless it has been demonstrated to the satisfaction of the Director that:

(A) the coal processing waste to be placed based upon laboratory testing to be non-toxic and/or non-acid-producing; or

(B) an adequate handling plan including alkaline additives has been developed and the mateiral after alkaline addition is non-toxic and/or non-acid-producing.

The disposal facility shall be designed using current, prudent engineering practices and shall meet any design criteria established by the Director. A qualified registered professional engineer, experienced in the

design of similar earth and waste structures, shall certify the design of the disposal facility. If any examination or inspection discloses that a potential hazard exists, the Director shall be informed promptly of the finding and of the emergency procedures formulated for public protection and remedial action. If adequate procedures cannot be formulated or implemented, the Director shall be notified immediately, and the Director will then notify the appropriate agencies that other emergency procedures are required to protect the public.

14.16 Backfilling, Remining, and Grading of Previously Mined Areas.

(a) Remining operations on previously mined areas that contain a pre-existing highwall shall comply with the applicable performance standards of the Act and these regulations unless otherwise exempted in accordance with the provisions of this subsection.

(b) The requirement of highwall elimination shall not apply to remining operations where the operator can demonstrate in writing that the volume of all reasonably available spoil located in the vicinity of the remining operation is insufficient to completely backfill the reaffected or enlarged highwall. The highwall shall be reduced to the maximum extent technically practical. All spoil generated by the remining operation and any other reasonably available spoil in the vicinity of the operation shall be included in the permit area. For purposes of this paragraph, the term reasonably available spoil means spoil and suitable coal mine waste material generated by the remining operation or other spoil or suitable coal mine waste material located in the permit area that is accessible and available for use and that when rehandled will not cause a hazard to public safety or significant damage to the environment.

(c) Achieve a postmining slope that does not exceed either the angle of repose or such lesser slope as is necessary to achieve a minimum long-term static safety factor of 1.3 and to prevent slides.

(d) Minimize erosion and water pollution both on and off the site.

(e) Support the approved postmining land use.

(f) Spoil and waste materials shall be compacted where advisable to ensure stability or to prevent leaching of toxic materials.

(g) Disposal of coal processing waste and underground development waste in the mined-out area shall be in accordance with Section 22 of these regulations, except that a long-term static safety factor of 1.3 shall be achieved.

(h) Exposed coal seams, acid- and toxic-forming materials, and combustible materials exposed, used, or produced during mining shall be adequately covered with nontoxic and noncombustible material, or treated, to control the impact on surface and ground water in accordance with subsection 14.5 of this section, to prevent sustained combustion, and to minimize adverse effects on plant growth and the approved postmining land use.

(i) Cut-and-fill terraces may be allowed where:

(1) Needed to conserve soil moisture, ensure stability, and control erosion on final-graded slopes, if the terraces are compatible with the approved postmining land use; or

(2) Specialized grading, foundation conditions, or roads are required for the approved postmining land use, in which case the final grading may include a terrace of adequate width to ensure the safety, stability, and erosion control necessary to implement the postmining land use plan.

(j) Small depressions may be constructed if they are needed to retain moisture, minimize erosion, create and enhance wildlife habitat, or assist revegetation.

(k) Spoil placed on the outslope during previous mining operations shall not be disturbed if such disturbance will cause instability of the remaining spoil or otherwise increase the hazard to the public health and safety or to the environment.

(l) Any highwall remnant left after remining must be demonstrated by the operator to be stable and not pose a hazard to the public health and safety or the environment.

(m) All revegetation shall be carried out in a manner that encourages a prompt vegetative cover which, at a minimum, shall be adequate to control erosion and is consistent with the reclamation plan. The ground cover requirements for revegetation set forth in Section 9 of these regulations may be modified on a case-by-case basis, by the Director, except that at a minimum the

vegetative ground cover shall be no less than that which existed before remining and shall be adequate to control erosion. Determination of premining ground cover success and productivity shall be made using sampling techniques described in the Handbook.

(n) A coal remining operation which began after February 4, 1987, and on a site which was mined prior to August 3, 1977, may qualify for the water quality exemptions set forth in subsection (p), Section 301 of the Federal Clean Water Act, as amended.

14.17 Control of Fugitive Dust. All exposed surface areas shall be protected and stabilized to effectively control erosion and air pollution attendant to erosion.

14.18 Utility Installations. All surface mining operations shall be conducted in a manner which minimizes damage, destruction, or disruption of services provided by oil, gas, and water wells; oil, gas, and coal-slurry pipelines; railroads; electric and telephone lines; and water and sewage lines which pass over, under, or through the permit area, unless otherwise approved by the owner of those facilities and the Director.

14.19 Disposal of Noncoal Mine Wastes.

(a) Noncoal mine wastes, except coal refuse and/or timber from clearing and grubbing operations, includes, but is not limited to grease, lubricants, paints, flammable liquids, garbage, abandoned mining machinery, lumber and other combustible materials generated during mining activities shall be placed and stored in a controlled manner in a designated portion of the permit area. Placement and storage shall ensure that leachate and surface runoff do not degrade surface or ground water, that fires are prevented, and that the area remains stable and suitable for reclamation and revegetation compatible with the natural surroundings.

(b) Final disposal of noncoal mine waste within the permit area will be in accordance with a permit issued pursuant to Chapter 22, Article 15 of the Code of West Virginia (Solid Waste Management Act).

(c) At no time shall any noncoal mine waste be deposited in a refuse pile or impounding structure, nor shall an excavation for a noncoal mine waste disposal site be located within eight (8) feet of any coal outcrop or coal storage area.

(d) Timber from clearing and grubbing operations may be wind-rowed below the projected toe of the outslope in a manner that will provide shelter and habitat for game and non-game wildlife and provide for enhanced sediment control. These materials may not be placed in natural water courses, or where they will be covered by spoil material at the toe of the outslope. The wind-rows must be of relatively uniform height and width and must be more or less evenly distributed along the lower reaches of and within the permit area.

38-2-15 Performance Standards Applicable Only to Underground Mining Operations

15.1 Site Development.

(a) Time Schedule for Site Excavation. The time schedule for site excavation shall be consistent with the approved preplan and shall provide for minimum exposure of disturbed area over a given time frame in a manner consistent with environmentally sound procedures. Regrading and stabilization of all areas disturbed in the development of the mine site shall proceed as contemporaneously as practicable. In any event, all required drainage system components and roads necessary for site construction shall be installed in accordance with the approved preplan prior to any disturbance for site development.

(b) Temporary Storage of Overburden to be Used for Backfilling and Regrading. All material to be used in final regrading must be placed within the permit area as specified in the approved plan in a manner which will insure mass stability in accordance with these regulations and revegetated to prevent erosion.

(c) Temporary Revegetation. All topsoil and spoil storage areas which will be in place for more than six (6) months but less than one (1) year shall at a minimum be seeded and mulched so as to establish a satisfactory stand of temporary vegetative cover. This seeding and mulching must be done promptly.

(d) Permanent Revegetation. All topsoil, spoil storage and other disturbed areas which will be in place for longer than one (1) year shall be mulched promptly, seeded, and/or planted during the first seeding season following disturbance so as to establish a satisfactory permanent vegetative cover. Trees shall be required only on those areas that:

(1) Will not be redisturbed by future reclamation activities; or

(2) Are necessary in order to meet the approved postmining land use.

(e) Mine Site Organization and Aesthetics. Indiscriminate dumping or discarding of materials, litter, junked equipment, containers, or other waste materials such as lubricants, paints, flammable liquids, garbage, lumber or other combustible material generated or used shall be prohibited. These materials shall be

properly placed in areas specifically designated for their storage or disposal or removed from the area. Regrading and revegetation of the disposal areas shall be planned and carried out where possible in a manner which results in the covering or screening of offensive and unsightly areas.

(f) Noncoal waste disposal sites shall:

(1) Be designed and constructed so as not to degrade surface or ground waters;

(2) Not be located within eight (8) feet of any coal outcrop or coal storage area;

(3) Not be deposited in a refuse pile or impounding structure;

(4) Be compacted; and

(5) Be covered with at least two (2) feet of soil, stabilized, and revegetated after completion.

15.2 Backfilling and Regrading.

(a) General. Spoil returned to the mined-out area shall be backfilled and graded to approximate original contour with all highwalls eliminated and a postmining slope that does not exceed either the angle of repose or such lesser slope as is necessary to achieve a minimum long-term static safety factor of 1.3 and prevent slides.

(b) Time Schedule for Regrading and Backfilling. Regrading and backfilling will be completed as contemporaneously as practicable with mining operations and as reflected on the approved mining and reclamation plan; provided, however, that reclamation activities shall be initiated within thirty (30) days, and final backfilling and regrading shall be initiated within one hundred eighty (180) days of completion of underground operations. Should particular site conditions or weather make adherence to these guidelines impractical, the period of time required to be current may be reasonably extended.

(c) Revegetation. Revegetation shall be kept current by establishing a temporary or permanent vegetative cover on regraded areas by the end of the first growing season and a permanent vegetative cover by the end of the second growing season. Standards and procedures for establishing a satisfactory

vegetative cover and guidelines for species selection and application rates are found in Section 9 of these regulations.

(d) Variances From Highwall Elimination. All underground mining operations which were in existence and which created highwalls prior to August 3, 1977, and which highwalls were not reaffected, may not be required to eliminate the highwall if the operator can demonstrate that it is technologically infeasible, by virtue of the fact that there is an insufficient amount of spoil material within the proximity of the mine site. The operator shall utilize all available material to eliminate as much of the highwall as possible or to achieve highwall elimination. At a minimum, the operator shall be required to seal all underground openings and to cover the exposed coal seam with a minimum of four (4) feet of nonacid producing materials. This paragraph does not constitute a variance from the requirement for highwall elimination except on previously mined areas (prior to May 3, 1978) which would involve exposing one area of highwall completely eliminated during the installation of the deep mine in order to eliminate another area of highwall.

(e) All underground mining operations which were in existence and which created a highwall prior to August 3, 1977, and which were reaffected by those operations during the remaining lives of their operations shall comply with the provisions of subsection 14.16 of these regulations.

(f) Rehandling of Excess Spoil Piles. Rehandling of settled and revegetated fills to achieve approximate original contour at the conclusion of underground mining activities shall not be required if the following conditions are met:

(1) The fill is not located so as to be detrimental to the environment or to the health and safety of the public and is compatible with the approved post mining land use;

(2) Stability of the fill shall be demonstrated through standard geotechnical analysis to be consistent with the backfilling and grading requirements; and maintain a static safety factor of 1.3 on solid benches and 1.5 on slopes;

(3) Surface runoff around, through, and from the fill is controlled by drainage structures (diversions, rock cores, etc.), which are designed and constructed in accordance with the approved plans and design specifications;

(4) Any underground development wastes used in the fill are non-toxic and non-acid producing; and

(5) The surface of the fill has been vegetated in accordance with Section 9 of these regulations.

15.3 In situ processing: Performance standards.

(a) General. Any person who conducts in situ processing activities shall comply with the applicable performance standards of the Act, these rules and regulations, and the terms and conditions of a permit.

(b) Protection of Hydrologic Balance. In situ processing activities shall be planned and conducted to minimize disturbance to the prevailing hydrologic balance by:

(1) Avoiding discharge of fluids into holes or wells, other than as approved by the Director;

(2) Injecting process recovery fluids only into geologic zones or intervals approved as production zones by the Director and in accordance with applicable State and Federal underground injection control regulations;

(3) Avoiding annular injection between the wall of the drill hole and the casing; and

(4) Preventing discharge of process fluid into surface waters.

(c) Control of Toxics. Each person who conducts in situ processing activities shall submit for approval as part of the application for a permit a plan that ensures that all acid-forming, toxic-forming, or radioactive gases, solids, or liquids constituting a fire, health, safety, or environmental hazard and caused by the mining and recovery process are promptly treated, confined, or disposed of, in a manner that prevents contamination of ground and surface waters, damage to fish, wildlife and related environmental values, and threats to the public health and safety.

(d) Process Recovery Fluids. Each person who conducts in situ processing activities shall prevent flow of the process recovery fluid:

(1) Horizontally beyond the affected area identified in the permit; and

(2) Vertically into overlying or underlying aquifers.

(e) Restoration of Groundwater Quality. Each person who conducts in situ processing activities shall restore the quality of affected ground water in the permit area and adjacent area, including ground water above and below the production zone, to the approximate premining levels or better, to ensure that the potential for use of the ground water is not diminished.

15.4 In situ processing: Monitoring.

(a) Monitoring Requirements. Each person who conducts in situ processing activities shall monitor the quality and quantity of surface and ground water and the subsurface flow and storage characteristics, in a manner approved by the Director, to measure changes in the quantity and quality of water in surface and ground water systems in the permit area and in adjacent areas.

(b) Water Quality Standards. Air and water quality monitoring shall be conducted in accordance with monitoring programs approved by the Director as necessary according to appropriate Federal and State air and water quality standards.

38-2-16. Subsidence Control.

16.1 Public Notice.

(a) Notification Requirements. A notification shall be distributed by mail to all owners of property and residents within the area above the underground workings. Each such person shall be notified by certified mail (return receipt requested) at least six (6) months prior to mining, or other time period if approved by the Director, beneath his or her property or residence. The return receipt shall be kept at the mine office. The notification shall contain, at a minimum:

(1) Company name, permit number and address;

(2) Identification of specific areas in which mining will take place and the date specific areas will be undermined;

(3) Dates of mining activities that could cause subsidence and affect specific structures; and

(4) The location or locations where the subsidence control plan may be examined.

16.2 Surface Owner Protection.

(a) General. Each person who conducts underground mining activities shall either adopt measures consistent with known technology which prevent subsidence from causing material damage to the extent technologically and economically feasible, maximize mine stability, and maintain the value and reasonably foreseeable use of surface lands; or adopt mining technology which provides for planned subsidence in a predictable and controlled manner. Nothing in this part shall be construed to prohibit the standard method of room-and-pillar mining.

(b) Plan Requirements. The operator shall comply with all provisions of the approved subsidence control plan prepared pursuant to subsection 3.12 of these regulations.

(c) Material Damage. The operator shall:

(1) Correct any material damage resulting from subsidence caused to surface lands, to the extent technologically and economically feasible, by restoring the land to a condition capable of maintaining the value and reasonably foreseeable uses which it was capable of supporting before subsidence; and

(2) Either correct material damage resulting from subsidence caused to any structures or facilities by repairing the damage or compensate the owner of such structures or facilities in the full amount of the diminution in value resulting from the subsidence. Repair of damage includes rehabilitation, restoration, or replacement of damaged structures or facilities. Compensation may be accomplished by the purchase prior to mining of a non-cancelable premium-prepaid insurance policy.

(d) Protection of Public Buildings and Dams. Underground mining activities shall not be conducted beneath or adjacent to public buildings and facilities, churches, schools, hospitals, or impoundments with a storage capacity of, or bodies of water containing, twenty (20) acre-feet or more, unless the Director finds that mining will not cause material damage or reduce the foreseeable use. The Director may, if necessary to minimize the potential for damage, limit the percent of coal extraction underneath or adjacent to such features or facilities. If subsidence causes material damage to such features or facilities, the Director may suspend mining under or adjacent to such features or facilities until the subsidence control plan is modified.

(e) Progress Maps. Updated maps of underground workings as required in Section 1, Article 2, Chapter 22 of the Act shall be made available to the Director for determining compliance with the subsidence control plans required in subsection 3.12 of these regulations, and projected location of potential subsidence. The maps and accompanying descriptions, as appropriate, shall identify significant features of the underground mine, including the size, configuration, and approximate location of pillars and entries, extraction ratios, measures taken to prevent or minimize subsidence and related damage, areas of full extraction, and other information required by the Director. Upon request of the operator, information submitted with the detailed plan may be held as confidential.

38-2-17. Small Operator Assistance Program.

17.1 General. This section comprises the Small Operator Assistance Program (SOAP) and governs the procedures for providing assistance to qualified small operators for the determination of the probable hydrologic consequences of mining and reclamation required by the Act and these rules, including the engineering analyses and designs; the development of cross-section maps and plans; the geologic drilling and statement of results of test borings and core samplings; preblast surveys; the collection of site-specific resource information and production of protection and enhancement plans for fish and wildlife habitats and other environmental values; and the collection of archaeological and historical information; and any other archaeological and historical information required by the federal department of the interior and the preparation of plans that may be necessitated thereby; and the Director shall provide or assume the cost of training coal operators that meet the qualifications concerning the preparation of permit applications and compliance with the regulatory program, and shall ensure that qualified coal operators are aware of the assistance available under this Section.

The Director will develop a procedure for the interstate coordination and exchange of information collected under the Small Operators Assistance Program.

Data collected under this program shall be made available to all interested persons in accordance with subsection 18.4 of this rule, except information related to the chemical and physical properties of coal; provided, that information which pertains only to the analysis of the chemical and physical properties of coal, except information regarding such mineral or elemental content which is potentially toxic to the environment, shall be kept confidential.

17.2 Program Services. Where a qualified small operator requests in writing assistance, as provided by the Small Operator Assistance Program, the Division of Environmental Protection shall select and pay a qualified laboratory to determine the probable hydrologic consequences of mining and reclamation operations in the permit and adjacent areas and potentially impacted offsite areas. The probable hydrologic consequences shall be in accordance with paragraphs (7), (8), (10), (11), (12), (13) and (16) through (19) subsection (a) Section 9 of the Act, paragraph (a) of subsection 3.22 of these regulations, and subsection 3.23 of these regulations.

17.3 Eligibility for Assistance. Applicants are eligible for assistance if they:

(a) Intend to apply for a permit pursuant to the Act; and

(b) Establish that their probable total attributed annual coal production from all locations during any consecutive twelve (12) month period either during the term of the permit or during the first five (5) years after issuance of the permit, whichever period is shorter, will not exceed three hundred thousand (300,000) tons. Production from the following operations shall be attributed to the applicant:

(1) The pro rata share, based upon percentage of ownership of applicant, of coal produced by operations in which the applicant owns more than a ten percent (10%) interest;

(2) The pro rata share, based upon percentage of ownership of applicant, of coal produced in other operations by persons who own more than five percent (5%) of the applicant's operation;

(3) All coal produced by operations which are owned by members of the applicant's family and relatives unless there is no direct or indirect business relationship between or among them; and

(4) All coal produced by operations owned or controlled by the applicant, or by persons who directly or indirectly control the applicant by reason of direction of management.

(c) Persons who are prohibited from receiving a permit for any reason, and persons who organize or reorganize a company for the sole purpose of obtaining assistance from SOAP, shall be deemed ineligible.

17.4 Request for Assistance. Each applicant requesting assistance shall provide information on forms provided by the Director in an application that shall be clear and concise and shall be provided in a format prescribed by the Director and/or a format required by the Federal Office of Surface Mining Reclamation and Enforcement.

17.5 Application Approval and Notice.

(a) The applicant shall be notified in writing if the application requesting assistance has been approved or denied, and if denied, the reasons shall be attached.

(b) If application requesting assistance has been approved, then one or more qualified laboratory or contractor will be selected to perform this work. A copy of the contract or other appropriate work order and the final report shall be provided to the applicant.

(c) The applicant shall arrange for any necessary right-of-entry for State personnel and the selected laboratory's or contractor's personnel to gain access to data collection and monitoring sites on the proposed permit area and adjacent areas and shall provide written agreements of such to the Director prior to entry.

17.6 Qualified Laboratories.

(a) General. A qualified laboratory means a designated public agency, private consulting firm or analytical laboratory approved by the Division of Environmental Protection as a SOAP contractor.

(b) Basic Qualifications. To qualify for designation, the laboratory or contractor must demonstrate that it:

(1) Is staffed with experienced, professional personnel in the field of hydrology, mining engineering, aquatic biology, geology, or chemistry applicable to the work to be performed;

(2) Is capable of collecting necessary field data and samples;

(3) Has adequate space for material preparation, cleaning and sterilizing necessary equipment, stationary equipment, storage, and space to accommodate periods of peak work loads;

(4) Meets the requirements of the Occupational Safety and Health Act or the equivalent state safety and health program;

(5) Has the financial capability and business organization necessary to perform the work required;

(6) Has analytical, monitoring and measuring equipment capable of meeting the applicable standards and methods contained

in the most current edition of the Standard Methods for the Examination of Water and Waste Water; Methods for Chemical Analysis of Water and Wastes; and EPA Manual 600/2-78-054 Field and Laboratory Methods Applicable to Overburden Minesoils; and

(7) Has the capability of making hydrologic field measurements and analytical laboratory determinations by acceptable hydrologic engineering or analytical methods.

(c) The qualified laboratory or contractor shall be capable of performing the determination and statement, and other components of work as described in the work directive given to the contractor by the Director which are required components necessary to make a determination of the proposed permit's probable hydrological consequences. Subcontractors may be used to provide the services required provided their use is defined in the application for designation and prior written approval is granted by the Division of Environmental Protection.

17.7 Liability of Operators.

(a) The applicant shall reimburse the Division of Environmental Protection for the cost of the program services performed if the applicant:

(1) Submits false information on the application;

(2) Fails to submit a surface mining permit application within one (1) year from the date of receipt of the approved probable hydrologic consequences report;

(3) Fails to mine after obtaining a surface mining permit;

(4) Has an actual and attributed annual production of coal for all locations exceeding three hundred thousand (300,000) tons during the twelve (12) month period immediately following permit issuance; or

(5) Sells, transfers, or assigns the permit to another person and the transferee's total actual and attributed production exceeds the 300,000 ton annual production limit during any consecutive twelve-(12) month period of the remaining term of the permit. Under this paragraph, the applicant and its successor are jointly and severally obligated to reimburse the Director.

(b) The Director can waive the reimbursement obligation if he finds that the applicant at all times acted in good faith and the applicant submits to the Director written statements which sufficiently demonstrate that the applicant has acted in good faith at all times.

38-2-18. Citizen's Actions.

18.1 Notice of Citizen's Suits. A person who intends to initiate a civil action on his own behalf under section 25 of the Act shall give notice of intent in accordance with the following:

(a) Notice shall, in all cases, be given by certified mail to the Director. A copy of the notice shall also be sent by first class mail to the Office of Surface Mining Field Office Director;

(b) In legal actions brought against any person, the State of West Virginia or any other governmental instrumentality, agency or agent thereof, notice shall be given by certified mail to the alleged violator, if the complaint alleges a violation of the Act or any regulation, order or permit issued under the Act;

(c) Service of notice under this section is complete upon mailing to the last known address of the person being notified;

(d) A person giving notice regarding an alleged violation shall state to the extent known:

(1) Sufficient information to identify the provision of the Act, regulation or permit allegedly violated;

(2) The act or omission alleged to constitute a violation;

(3) The name, address and telephone numbers of the person or persons responsible for the alleged violation;

(4) The date, time and location of the alleged violation(s);

(5) The name, address and telephone number of the person giving notice; and

(6) The name, address and telephone number of legal counsel, if any.

(e) A person giving notice of an alleged failure by the Director, reclamation board of review, or appropriate division employee, to perform a mandatory act or duty under the Act, shall state to the extent known:

(1) The provision of the Act containing the mandatory act or duty allegedly not performed;

(2) Sufficient information to identify the omission alleged to constitute the failure to perform a mandatory act or duty under the Act;

(3) The name, address and telephone number of the person giving notice; and

(4) The name, address and telephone number of legal counsel, if any, of the person giving notice.

18.2 Citizen's Request for State Inspections.

(a) Any person may request a State inspection by furnishing to the Director a signed, written statement (or an oral report followed by a signed, written statement) giving the Director reason to believe that a violation exists or that a condition or practice which creates an imminent danger to the health or safety of the public or is causing or can reasonably be expected to cause a significant, immminent environmental harm to land, air, or water resources exists. The statement shall contain a phone number and address where the person can be contacted.

(b) The identity of any person supplying information to the Director relating to a possible violation or imminent danger or harm shall remain confidential, if requested by that person, unless that person elects to accompany the inspector on the inspection.

(c) If an inspection is conducted as a result of information provided to the Director by a person as described in paragraph (a) of this subsection, the person shall be notified as far in advance as practicable when the inspection is to occur and shall be allowed to accompany the State inspector during the inspection. Such person has a right of entry to, upon and through the coal exploration or surface coal mining and reclamation operation about which he or she supplied information, but only if he or she is in the presence of and is under the control, direction and supervision of a State inspector while on the mine property. Such right of entry does not include a right to enter buildings without consent of the person in control of the buildings or without a search warrant.

(d) Within ten (10) days of the inspection or, if there is no inspection within fifteen (15) days of receipt of the person's written statement, the Director shall respond in writing as follows:

(1) If an inspection was made, a description of the enforcement action taken, which may consist of copies of the State inspection report and all notices of violation and cessation orders;

(2) If no State inspection was conducted or enforcement action taken, an explanation of the reason why;

(3) An explanation of the person's right to informal review of the action or inaction of the Director; and

(4) Copies of all materials in subparts (1) and (2) of this paragraph within the time limits specified to the person alleged to be in violation, except that the name of the person shall be removed unless disclosure of the person's identity is permitted under paragraph (b) of this subsection.

(e) Any person who is or may be adversely affected by a prospecting or surface coal mining operation may notify the Director in writing of any alleged failure to make adequate and complete inspections as required by law and regulation. The notification shall include sufficient information to create a reasonable belief that the law and regulations regarding inspections are not being complied with and to demonstrate how the person is or may be adversely affected. The Director shall, within fifteen (15) days of receipt of the notice, determine whether or not the statutes or regulations concerning inspections are being complied with and if not, shall order an inspection. The Director shall furnish the complainant with a written decision of the reasons for his determination and actions, if any, he has taken.

18.3 Review of Decision Not to Inspect or Enforce.

(a) Any person who is or may be adversely affected by a surface coal mining or prospecting operation may ask the Director to informally review an authorized representative's decision not to inspect or take appropriate enforcement action with respect to any violation alleged by that person in a request for inspection under section 15 of the Act. The request for review shall be in writing and shall include a statement of how the person is or may be adversely affected and why the decision merits review. The Director shall conduct the review within thirty (30) days of his receipt of the request and inform the person of the results. The person alleged to be in violation shall be given a copy of the results of the review, except that the name of the person who is or may be adversely affected by a prospecting or surface mining operation shall not be disclosed unless confidentiality has been

waived or disclosure is required under the Freedom of Information Act or other State or Federal laws.

(b) Any person who is or may be adversely affected by the decision of the Director may appeal such decision to the Surface Mine Board pursuant to Section 2, Article 4, Chapter 22B of the Code of West Virginia.

(c) Informal review under this section shall not affect any right to formal review or to a citizen's suit.

18.4 Public Record:

(a) Availability of public records shall be in accordance with 29B-1-1 et. seq. of the Code of West Virginia. Copies of all records, reports, inspection materials or information obtained under the Act, except information in paragraph (b), subsection 18.2 of this section, and paragraph (c) of this subsection, shall be made immediately available to the public at regional offices in the area of mining so that they are conveniently available. Such information shall include copies of all documents relating to applications for and approvals of existing, new or revised prospecting approvals or surface coal mining and reclamation permits, including the revision, renewal, transfer, assignment or sale thereof, and all documents relating to inspection and enforcement actions.

(b) All records will be maintained and preserved for a period of not less than five (5) years. Relative to prospecting approvals and surface mining permits, the five year period applies after final bond release.

(c) Information as to coal seams, test borings, core samplings or soil samples pertaining to the analysis of the chemical and physical properties of the coal, except information regarding mineral or element content which is potentially toxic to the environment, shall be kept confidential and shall not be made a matter of public record.

(d) Information on the nature and location of archaeological resources shall be kept confidential to the extent required by the Archaeological Resources Protection Act of 1979.

(e) Permit applications and other related materials requiring public notices shall be made immediately available in the county courthouse or other available public office approved by the Director, in the county in which the proposed mining operation is located.

(f) The Director shall provide procedures, including notice and opportunity to be heard for persons both seeking and opposing disclosure, to ensure confidentiality of qualified confidential information, which shall be clearly identified by the applicant and submitted separately from the remainder of the application. Confidential information is limited to that information identified in subparagraph (1), paragraph (f), subsection 3.23 of these regulations, paragraph (b) of subsection 18.2 of this section, paragraph (c) of this subsection, and information relating to the nature and location of archeological resources on public land as required under the Archeological Resources Protection Act of 1979.

38-2-19 Designation of Areas Unsuitable for Mining.

19.1 Right to Petition.

(a) Any person having an interest which is or may be adversely affected, or the Director, has the right to petition to have an area designated as unsuitable for surface coal mining operations, or to have an existing designation terminated. Such petition shall be filed in the Office of the Director.

(b) Designation. The petitioner shall provide the following information:

(1) A U.S.G.S. topographic map on which is noted the location and size of the area covered by the petition;

(2) Allegations of facts and supporting evidence which would tend to establish that the area is unsuitable for all or certain types of surface coal mining operations;

(3) A description of how mining of the area has affected or may adversely affect people, land, air, water or other resources;

(4) The petitioner's name, notarized signature, address and telephone number; and

(5) A statement which identifies the petitioner's interest which is or may be adversely affected, including how the petitioner meets an "injury in fact" test by describing the injury to his or her specific affected interests and demonstrates how he or she is among the injured.

(c) Termination of the Designation. A petitioner requesting to terminate a designation shall provide the following information:

(1). A U.S.G.S. topographic map on which is noted the location and size of the area covered by the petition;

(2) Allegations of facts with supporting evidence not contained in the record of the proceeding in which the area was designated unsuitable, which would tend to establish the statements or allegations, and which statements or allegations indicate that the designation should be terminated based on:

(A) The nature or abundance of the protected resource or condition or other basis of the designation if the

designation was based on criteria found in paragraph (b), subsection 19.7 of this section;

(B) Reclamation now being technologically and economically feasible, if the designation was based on the criteria found in paragraph (a), subsection 19.7 of this section; or

(C) The resources or condition not being affected by surface coal mining operations, or in the case of land use plans, not being incompatible with surface coal mining operations during and after mining, if the designation was based on the criteria found in paragraph (b), subsection 19.7 of this section.

(3) The petitioner's name, notarized signature, address and telephone number;

(4) A statement which identifies the petitioner's interest which is or may be adversely affected by the continuation of the designation including how the petitioner meets an "injury in fact" test by describing the injury to his or her specific affected interests and demonstrating how he or she is among the injured; and

(5) For areas previously and unsuccessfully proposed for termination, significantly new allegations of facts and supporting evidence must be presented in the petition.

19.2 Initial Processing, Record-keeping, and Notification Requirements.

(a) Within thirty (30) days of receipt of a petition, the Director shall notify the petitioner by certified mail whether or not the petition is complete in accordance with paragraph (b) or (c), subsection 19.1 of this section.

(b) The Director shall determine whether any identified coal resources exist in the area covered by the petition, without requiring any showing from the petitioner. If the Director finds there are not any identified coal resources in that area, he shall return the petition to the petitioner with a statement of the findings.

(c) The Director may reject petitions for designations or terminations of designations which are frivolous. Each petitioner must, at a minimum, satisfy the requirements of paragraph (b) or (c), subsection 19.1, of this section. No party shall bear any burden of proof, and each accepted petition shall

be considered and acted upon by the Director pursuant to the procedures of this Section.

(d) When considering a petition for an area which was previously and unsuccessfully proposed for designation, the Director shall determine if the new petition presents new allegations of facts. If the petition does not contain new allegations of facts, the Director shall not consider the petition and shall return the petition to the petitioner, with a statement of its findings and a reference to the record of the previous designation proceedings where the facts were considered.

(e) If the Director determines that the petition is incomplete or frivolous, he shall return the petition to the petitioner, with a written statement of the reasons for the determination and the categories of information needed to make the petition complete.

(f) The Director shall notify the person who submits a petition of any application for a permit received which proposes to include any area covered by the petition.

(g) Any petitions received after the first advertisement has been published on a permit application relating to the same mine plan area shall not prevent the Director from issuing a decision on that permit application. The Director may return any petition received thereafter to the petitioner with a statement why the petition cannot be considered. For the purposes of this section, close of the public comment period shall mean at the close of any informal conference or if no conference is requested, at the close of the period for filing written comments and objections.

(h) Promptly after a petition is received, the Director shall notify the general public of the receipt of the petition by a conspicuous newspaper advertisement placed in the locale of the area covered by the petition, in the newspaper providing broadest circulation in the region of the petitioned area, and in the State Register. The Director shall also make copies of the petition available to the public and provide copies of the petition to other interested governmental agencies, interveners, persons with an ownership interest of record in the property, and other persons known to the Director to have an interest in the property. Notice to those persons with ownership interests in the property of record shall be in accordance with applicable State law.

(i) Within three (3) weeks after the determination that a petition is complete, the Director shall make copies of the petition available to the public and other agencies and shall notify the general public of the receipt of the petition and request submissions of relevant information by a newspaper advertisement placed once a week for two (2) consecutive weeks in the locale of the area covered by the petition in the newspaper of largest circulation in the State and in any Official State register of public notices.

(j) Until three (3) days before the Director holds a hearing under subsection 19.3 of this section, any person may intervene in the proceeding by filing allegations of facts, supporting evidence, a short statement identifying the petition to which the allegations pertain and the intervener's name, address, and telephone number.

(k) Beginning immediately after a petition is filed, the Director shall compile and maintain a record consisting of the petition and all documents relating to the petition filed with or prepared by the Division of Energy. The Director shall make the record available for public inspection, free of charge, and copying, at reasonable cost, during all normal business hours at a central location of the county or multi-county area in which the land petitioned is located, and at the main office of the Division of Energy.

19.3 Hearing Requirements.

(a) Within ten (10) months after receipt of a complete petition, the Director shall hold a public hearing in the locality of the area covered by the petition. If all petitioners and interveners agree, the hearing need not be held. The Director shall make a verbatim transcript of the hearing.

(b) Not less than thirty (30) days prior to a hearing, the Director shall give notice by certified mail of the date, time, and location of the hearing to:

(1) Local, State, and Federal agencies which may have an interest in the decision on the petition;

(2) The petitioner and the interveners; and

(3) Any person with an ownership or other interest known to the Director in the area covered by the petition.

(c) The Director shall notify the general public of the date, time and location of the hearing by placing a conspicuous newspaper advertisement once a week for two (2) consecutive weeks in the locale of the area covered by the petition and once during the week prior to the scheduled date of the public hearing. The consecutive weekly advertisement must begin between four (4) and five (5) weeks before the scheduled date of the public hearing.

(d) The Director may consolidate in a single hearing the hearings required for each of several petitions which relate to areas in the same locale.

(e) Prior to designating any land areas as unsuitable for surface coal mining operations, the Director shall prepare a detailed statement, using existing and available information, on the potential coal resources of the area, the demand for coal resources and the impact of such designation on the environment, the economy and the supply of coal.

(f) In the event that all petitioners and interveners stipulate agreement prior to the hearing, the petition may be withdrawn from consideration.

19.4 Decision.

(a) In reaching a decision, the Director shall use:

(1) The relevant information contained in the data base and inventory system;

(2) Information provided through public comment or by other governmental agencies;

(3) The detailed statement prepared under paragraph (e), subsection 19.3, of this section; and

(4) Any other relevant information submitted during the comment period.

(b) A final written decision shall be issued by the Director including a statement of reasons, within sixty (60) days of completion of the public hearing, or if no public hearing is held, then within twelve (12) months after receipt of the complete petition. The Director shall simultaneously send the decision by certified mail to the petitioner, every other party to the proceeding, and to the Field Office Director of the Office of Surface Mining.

(c) The decision of the Director with respect to a petition, or the Director's failure to act within the time limits set forth herein shall be subject to judicial review by a court of competent jurisdiction in accordance with State law.

19.5 Data Base and Inventory System Requirements.

(a) The Director shall develop a data base and inventory system which will permit evaluation of whether reclamation is feasible in areas covered by petitions.

(b) The Director shall include in the system information relevant to the criteria in paragraph (b), subsection 19.7, of this section, including but not limited to, information received from the United States Fish and Wildlife Service, the State Historic Preservation Officer and the Air Pollution Control Commission.

(c) The Director shall add to the data base and inventory system information:

(1) On potential coal resources of the State, demand for those resources, the environment, the economy and the supply of coal, sufficient to enable the Director to prepare the statements required by paragraph (e), subsection 19.3, of this section; and

(2) That which becomes available from petitions, publications, experiments, permit applications, mining and reclamation operations and other sources.

19.6 Public Information. The Director shall:

(a) Make the information and data base system developed available to the public for inspection free of charge and for copying at a reasonable cost except that areas proposed for or included in the National Register of Historic Places may not be disclosed if the Director determines that such disclosure might risk destruction or harm to these resources.

(b) Provide information to the public on the petition procedures necessary to have an area designated as unsuitable for all or certain types of surface coal mining operations or to have designations terminated and describe how the inventory and data base system can be used.

19.7 Criteria for Designating Lands as Unsuitable.

(a) Upon petition, an area shall be designated as unsuitable for all or certain types of surface mining operations, if the Director determines that reclamation is not technologically or economically feasible under the Act and these rules and regulations.

(b) Upon petition, an area may be (but is not required to be) designated as unsuitable for all or certain types of surface mining operations, if the operations will:

(1) Be incompatible with existing State or local land use plans or programs;

(2) Affect fragile or historic lands in which the operations could result in significant damage to important historic, cultural, scientific or aesthetic values or natural systems;

(3) Affect renewable resource lands in which the operations could result in a substantial loss or reduction of long range productivity of water supply or of food or fiber products (For the purposes of this section, the term "renewable resource lands" means geographical areas which contribute significantly to the long range productivity of a water supply, or food or fiber products); or

(4) Affect natural hazard lands in which the operations could substantially endanger life and property. Such lands include areas subject to frequent flooding and areas of unstable geology.

19.8 Director's Responsibility for Implementation.

(a) The Director shall not issue permits which are inconsistent with designations made pursuant to Section 22 of the Act.

(b) The Director shall maintain a cumulative map of areas designated as unsuitable for all or certain types of surface coal mining operations.

(c) The Director shall make available to any person any information within his control regarding designations, including mineral or elemental content which is potentially toxic in the environment but excepting proprietary information on the chemical and physical properties of the coal.

19.9 Land Exempt From Designation as Unsuitable for Surface Coal Mining Operations.

(a) The requirements of this section do not apply to:

(1) Lands on which surface coal mining operations were being conducted prior to August 3, 1977;

(2) Lands covered by a permit issued after August 3, 1977; and

(3) Lands where substantial legal and financial commitments in surface coal mining operations were in existence prior to January 4, 1977.

38-2-20 Inspection and Enforcement. In addition to the requirements set forth in Section 15, 16, and 17 of the Act, the following requirements shall be met.

20.1 Inspection Frequencies.

(a) Scheduling. In addition to the requirements of subsection (a) of Section 15 of the Act, the Director shall have a right of entry to, upon, and through any prospecting operation or surface coal mining and reclamation operation without advance notice upon presentation of appropriate credentials. No search warrant shall be required, except with respect to entry into a building. The Director shall conduct:

(1) An average of at least one partial inspection per month of each active surface mining operation.

(2) One complete inspection per calendar quarter of each active and inactive surface mining operation. An inactive operation is one which has requested and received approval to temporarily cease operations as provided in subsection 14.11 of these regulations, or one that has been granted Phase I bond release, and the revegetation on the surface coal mining and reclamation operation has been successfully established at the end of the first growing season with a minimum ground cover of sixty (60%) percent and the operation is in compliance with the requirements set by subparagraph (B), paragraph 10, subsection (b) of Section 13 of the Act or until soil productivity for prime farmlands has returned to the equivalent levels of yield as nonmined land of the same soil type in the surrounding area under equivalent management practices as determined by the soil survey performed pursuant to paragraph (15) subsection (a) of Section 9 of the Act and subsection 10.3 and Section 10 of these regulations.

(3) Prospecting operations shall be inspected as necessary to assure compliance with the Act and these rules and regulations.

(4) At least one partial inspection monthly and one complete inspection quarterly for each prospecting operation for which approval has been granted for coal removal in excess of 250 tons.

(5) More frequent inspections shall be made on any prospecting, active surface mining operation, or inactive surface mining operation as necessary to assure compliance with the Act,

these rules and regulations, and the terms and conditions of the permit.

(b) Partial Inspection. For purposes of this section, a partial inspection is an on-site or aerial review of a person's compliance with some of the provisions of the Act, these regulations, and the terms and conditions of the permit.

(c) Complete Inspection. For purposes of this section, a complete inspection is an on-site review of a person's compliance with all the provisions of the Act, these regulations, and the terms and conditions of the permit within the entire area disturbed or affected by the surface coal mining and reclamation operations.

(d) Aerial Inspection. Aerial inspections shall be conducted in a manner which reasonably insures the identification and documentation of conditions at each surface coal mining and reclamation site inspected.

Any potential violation observed during an aerial inspection shall be investigated on-site within three days: provided, that any indication of a condition, practice or violation constituting cause for the issuance of a cessation order shall be investigated on-site immediately. An on-site investigation of a potential violation observed during an aerial inspection shall not be considered to be an additional partial or complete inspection for the purposes of paragraph (a) of this subsection.

20.2 Notice of Violations.

(a) When, on the basis of an inspection carried out pursuant to subsection 20.1 of this section, the Director determines that the surface mining and reclamation operation or prospecting operation is in violation of any of the requirements of the Act, these regulations, and the terms and conditions of the permit or prospecting approval, a notice of violation shall be issued. Such notice of violation shall comply with all requirements and provisions of this subsection.

(b) Notice Procedures. A notice of violation shall be in writing signed by the Director and shall set forth with reasonable specificity:

(1) The nature of the violation;

(2) The remedial action required, which may include interim steps;

(3) A reasonable time for abatement, which may include time for accomplishment of interim steps, but in no case shall the initial abatement period be in excess of thirty (30) days; and

(4) A reasonable description of the portion of the prospecting or surface coal mining and reclamation operation to which it applies.

(c) Abatement. The Director may extend the time set for abatement or for accomplishment of an interim step, if the failure to meet the time previously set was not caused by lack of diligence on the part of the operator. The total time for abatement under a notice of violation, including all extensions, shall not exceed 90 days from the date of issuance, except upon a showing by the operator that it is not feasible to abate the violation within 90 calendar days due to one or more of the circumstances in paragraph (e) of this subsection. An extended abatement date pursuant to this subsection shall not be granted when the operator's failure to abate within 90 days has been caused by a lack of diligence or intentional delay by the operator in completing the required remedial action.

(d) Termination. The Director shall terminate a notice of violation by written notice to the permittee when he determines that all violations listed in the notice of violation have been abated. Notices of violations shall not be terminated or vacated because of the operator's inability to comply with the terms of abatement.

(e) Criteria for Extensions of Abatement Period. Circumstances which may qualify an operator for an abatement period of more than 90 days are:

(1) Where the operator of a permitted operation has made timely application for and diligently pursued a permit renewal or other necessary approval of designs or plans but such permit renewal or other approval has not been or will not be issued within 90 days after the time required for reasons not within the control of the operator;

(2) Where there is a valid judicial order precluding abatement within 90 days as to which the operator has diligently pursued all rights of appeal and as to which there is no other effective legal remedy;

(3) Where the operator cannot abate within 90 days due to a labor strike;

(4) Where climatic conditions preclude abatement within 90 days, or where, due to climatic conditions, abatement within 90 days clearly would cause more environmental harm than it would prevent; or

(5) Where abatement within 90 days requires action that would violate safety standards established by statute or regulation under the Mine Health and Safety Act of 1977.

(f) Interim Procedures. Whenever an abatement time in excess of 90 days is permitted, interim abatement measures shall be imposed to the extent necessary to minimize harm to the public or the environment.

(g) Grant of Extension. If any of the conditions in paragraph (e) of this subsection exist, the operator may request that the Director grant an abatement period exceeding 90 days. An authorized representative of the Director shall grant the extension only with the concurrence of his immediate supervisor. The abatement period granted shall not exceed the shortest possible time necessary to abate the violation. The operator shall have the burden of establishing by clear and convincing proof that he is entitled to an extension. The authorized representative of the Director who grants or denies the extension shall promptly and fully document in the file the reasons for granting or denying the request. The immediate supervisor shall review this document before concurring in or disapproving the extended abatement date and shall promptly and fully document the reasons for concurrence or disapproval in the file.

(h) Appeals. Any determination made under paragraph (g) of this subsection shall carry with it a right of appeal.

(i) Extension Period. No extension granted under paragraph (g) of this subsection may exceed 90 days in length. Where the condition or circumstance which prevented abatement within 90 days exists at the expiration date of any such extension, the operator may request and the Director may grant a further extension pursuant to the procedures of paragraph (g) of this subsection.

20.3 Cessation Orders.

(a) Imminent Harm.

(1) When the Director finds that a prospecting or surface mine operation creates an imminent danger to the health or safety of the public or is causing or can reasonably be expected to cause significant, imminent environmental harm to land, air, or water resources, a cessation order shall be issued forthwith.

(2) Any cessation order issued under the provisions of subsection (a) of Section 16 of the Act, shall remain in effect until the violation has been abated or until modified, vacated, or terminated by the Director or the Surface Mine Board or by a court.

(3) In any cessation order, the Director shall determine the appropriate remedial measures to be taken to abate the violation in the most expeditious manner possible and shall set forth these measures and the time by which abatement shall be accomplished in the order.

(4) Mining operations conducted by any person without a valid surface mining permit, or approval for prospecting, constitute a condition or practice which causes or can reasonably be expected to cause significant, imminent environmental harm to land, air, or water resources, unless such operations are an integral, uninterrupted extension of previously permitted operations, and the person conducting such operations has filed a timely and complete application for a permit or approval to conduct such operations.

(b) Failure to Abate.

(1) If the operator fails to meet the time set for abatement of a notice of violation issued pursuant to subsection 20.2 of this section, the Director shall issue a cessation order; or

(2) If the operator fails to meet the time set for accomplishment of any interim step of a notice of violation issued pursuant to subsection 20.2 of this section, the Director may issue a cessation order.

(c) All cessation orders shall be issued as follows:

(1) A cessation order shall set forth in writing with reasonable specificity:

(A) The nature of the condition, practice or violation for which the order was issued;

(B) The remedial action or affirmative obligation required by the operator, if any, including any interim steps;

(C) The time established for abatement, if appropriate; and

(D) A reasonable description of the portion of the prospecting or surface mining and reclamation operation to which it applies.

(2) Reclamation operations and other activities intended to protect public health and safety and the environment shall continue during the period of any cessation order unless otherwise provided in the order.

(3) The Director may modify, terminate or vacate a cessation order for good cause, and may extend the time for abatement if the failure to abate within the time previously set was not caused by lack of diligence on the part of the operator. A cessation order shall not be terminated or vacated because of the operator's inability to comply with the terms of abatement.

(4) The Director shall terminate a cessation order by written notice when it is determined that all conditions, practices, or violations listed in the order have been abated. The termination notice must be in writing and shall not affect the right of the Director to assess civil penalties for the violation.

(d) Notice of Informal Conference. Notices of informal conferences held as a result of a cessation order issued pursuant to the provisions of subsection (a), Section 16 of the Act shall be posted at the nearest regional office and sent by mail or communicated verbally, whichever is more practicable, to any person who filed a report which led to a cessation order for which the informal conference is to be held. The results of the informal conference shall be provided to any person who filed a report which led to the order within five (5) days after the close of the informal conference.

(e) Within sixty (60) days after issuing a cessation order, the Director shall notify in writing any person identified as

owning or controlling the permittee, that the cessation order was issued and that the person has been identified as an owner or controller.

20.4 Show Cause Orders.

(a) General. Where the Director determines that a pattern of violations of the Act, these regulations or the terms and conditions of a permit exists or has existed, and that the violations were caused willfully or through an unwarranted failure to comply, the Director shall issue an order requiring the permittee to show cause why the permit and the permittee's right to mine under the Act should not be suspended or revoked. For purposes of this subsection a willfully caused violation is a violation resulting from an intentional act or omission, and an unwarranted failure to comply means the failure of the permittee to prevent the occurrence of any violation or the failure to abate any violation of the Act, these rules and regulations, or the terms and conditions of the permit due to indifference, lack of diligence or lack of reasonable care.

(b) Criteria for Establishing a Pattern of Violations. The Director may determine that a pattern of violations exists or has existed, where violations were cited on two or more inspections of the permit area within any twelve (12) month period. In making such a determination, the Director shall take into consideration the following circumstances:

(1) The number of previous violations cited on more than one occasion for the same or related requirements of the Act, these rules and regulations, or the terms and conditions of the permit;

(2) The number of previous violations, cited on more than one occasion, of different requirements of the Act, these regulations or the terms and conditions of the permit; and

(3) The extent to which the violations were isolated departures from lawful conduct.

(c) Duplicate or Similar Violations. The Director shall promptly review the history of violations of any permittee who has been cited for violations of the same or related requirements of the Act, these regulations or the terms and conditions of the permit during three (3) or more inspections of the permit area within any twelve (12) month period. After such review, the Director shall determine whether or not a pattern of violations exists.

(d) Permittee Responsibility. Violations by any persons conducting surface coal mining operations on behalf of the permittee shall be attributed to the permittee, unless the permittee establishes that they were acts of deliberate sabotage.

(e) Hearings and Appeals. If the permittee files an answer to the show cause order and requests a hearing, a public hearing shall be held. The Director shall give thirty (30) days advance written notice to the permittee and any interested party who requests intervener status of the date, time, and place of the hearing. The Director shall publish the notice if practicable, in a newspaper of general circulation in the area of the operations, and shall also post the notice in the regional office of the Division of Environmental Protection nearest the operation.

(f) Consent Agreement. When the permittee demonstrates that sufficient resources are available to him to abate the violation(s), the Director may enter into a consent agreement.

(g) Hearing Record and Decisions. Within sixty (60) days following the hearing, the Director shall issue a written determination as to whether a pattern of violations exists, and furnish to the operator and all other parties to the hearing a written decision or consent order and the reason therefor, concerning suspension or revocation of the permit.

(h) Revocation and Suspension. If the Director revokes or suspends the permit and the permittees right to mine under the Act, the permittee shall immediately cease surface coal mining operations in the subject permit area, and initiate the appropriate remedial action as follows:

(1) If the permit and the right to mine under the Act are revoked, the operator shall complete reclamation within the time specified in the revocation order; or

(2) If the permit and right to mine under the Act are suspended, the operator shall complete all affirmative obligations to abate all conditions, practices, or violations, as specified in the suspension order.

(i) Failure to Abate. Whenever a permittee fails to abate a violation contained in a notice of violation or cessation order within the abatement period set in the notice or order or as subsequently extended, the Director shall review the permittee's history of violations to determine whether a pattern of

violations exists and shall issue an order to show cause where appropriate.

(j) Consent Agreement. If, at any point in the enforcement process following the issuance of a notice of violation, a cessation order or a show cause order, a consent agreement is reached between the Director and a permittee and/or operator, the following standards shall apply to that consent order:

(1) The Director will require all abatement work mandated in the consent agreement to be performed in the most expeditious manner physically possible. In no event shall the time period in which remedial action must be completed exceed one (1) year, nor can extensions to abatement times in consent orders total more than one year; provided however, that for sites permitted before September 5, 1989, the Director may grant a future extension if he finds in writing that exceptional circumstances exist which preclude abatement in the twelve-month period.

(2) Violation of any term in a consent agreement shall result in immediate forfeiture of the bond for the site, unless the Director finds in writing that:

(A) The operator and/or permittee have shown good faith in taking remedial actions required by the consent agreement; and

(B) No environmental harm has resulted, or will result, from the subject violation.

(3) No consent agreement shall be agreed to if the permittee, and/or operator or any entity owned or controlled by the permittee and/or the operator, has violated or is in violation of a previous consent agreement; provided however, that the Director is required to make only best efforts to determine if said violation or ownership and control ties exist.

(4) No consent agreement can be reached on a site if the permittee and/or operator have previously entered into two consent orders on the same site.

The standards set forth in (1) through (4) above shall apply to any extension, modification, or other change in any existing consent agreement.

20.5 Civil Penalty Determinations.

(a) Notice of Violation Assessments. The Director shall review each notice of violation and determine whether or not a civil penalty will be assessed and the amount of the penalty. The Director for each notice of violation, may assess a separate civil penalty for each day of the violation, beginning with the date of issuance of a notice of violation to the date of abatement of the violation. In determining whether or not to assess a separate daily civil penalty and determine the amount of the civil penalty, the Director shall consider those factors specified in subsection (c), Section 17, of the Act, and subsection 20.7 of these regulations, and may consider the extent to which the operator may have gained any economic benefit as a result of a failure to comply. Any notice of violation which continued unabated for two or more days after the initial abatement period, and received a civil penalty assessment of $3,500 or more, shall be assessed the penalty amount for a minimum of two separate days. The determination as to whether or not to assess a civil penalty if the amount is less than one thousand dollars ($1,000) will be at the discretion of the Director. Notices of violations with a seriousness rating of 4 or greater shall be assessed regardless of the amount. Termination of a notice of violation shall not affect the right of the Director to assess a civil penalty for those violations.

(b) Cessation Order Assessments. The Director shall, for any cessation order, assess a civil penalty in accordance with subsection (a), Section 17, of the Act for each day of continuing violation, except that such penalty shall not be assessed for more than thirty (30) days. If the cessation order has not been abated within the thirty (30) day period, the Director shall initiate action pursuant to subsections (b), (g), (h) and (j), Section 17, of the Act as appropriate. If the order is suspended in a temporary relief proceeding, the period specified for the abatement shall not end until the date on which the Director issues a final order with respect to the violation in question. If judicial review proceedings are initiated in which the order is suspended by court, the daily assessment of the civil penalty shall not be made for any period before entry of a final order by the court.

20.6 Procedure for Assessing Civil Penalties.

(a) Assessment Officer - Duties. For the purposes of this section, the assessment officer shall not determine the proposed penalty assessment until such time as the Director has caused an inspection of the violation to be conducted and the findings of that inspection are submitted to the assessment officer in writing. The Director must conduct the inspection of the violation within the first fifteen (15) days after the notice or order was served. The assessment officer may continue conferences, conduct investigations, and interview witnesses as necessary.

(b) Determination of Civil Penalty Amounts. Civil penalty amounts for notices of violation shall be determined in accordance with the factors specified in paragraph (c), Section 17, of the Act and the numerical point system in subsection 20.7 of this section. Within fifteen (15) days of service of a notice of violation or cessation order, the person to whom it was issued may submit written information about the violation to the Director and to the inspector who issued the notice of violation or cessation order.

(c) Notice of Assessment. The Director shall provide a copy of the proposed assessment and the accompanying worksheet to the operator by certified mail, within thirty (30) days of the date of the issuance of a notice or order. If the mail is tendered at the address of the person set forth in the sign required under paragraph (a), subsection 14.1 of these regulations, or at any address at which that person is in fact located, and he or she refuses to accept delivery of or to collect such mail, the requirements of this paragraph shall be deemed to have been complied with upon such tender. Failure by the Director to serve any proposed assessment within thirty (30) days shall not be grounds for dismissal of all or part of such assessment unless the person against whom the proposed penalty has been assessed: (1) proves actual prejudice as a result of the delay; and (2) makes a timely objection to the delay. An objection shall be timely only if made in the normal course of administrative review. The Director shall also give notice including any worksheet, in person or by certified mail, to the operator of any penalty adjustment as a result of an informal conference within thirty (30) days following the date of the conference. The reasons for reassessment shall be documented in the file by the assessment officer. The Director shall consider any information submitted pursuant to paragraph (b) of this subsection in determining the facts surrounding the violation and the amount of the penalty. Unless a conference has been

requested, the Director shall review and if necessary reassess any penalty considering facts which were not reasonably available on the date of issuance of the proposed assessment because of the length of the abatement period. The Director shall serve a copy of any such reassessment and of the worksheet showing the computation of the reassessment within thirty (30) days after the date the violation is abated.

(d) Notice of Informal Assessment Conference. The time and place of an informal assessment conference shall be posted at the nearest Division of Environmental Protection regional office to the operation, at least five days prior to the conference date. Any person shall have the right to attend and participate in the conference. Any person, other than the operator and Division of Environmental Protection representatives, may submit in writing at the time of the conference a request to present evidence concerning the violation(s) being conferenced. Such request shall be granted by the assessment officer. Should problems arise due to scheduling, the assessment officer may continue the conference to a later time and/or date as the assessment officer deems necessary to honor other scheduled conferences.

(e) Informal Conference. An informal conference on the assessment or reassessment must be scheduled within 60 days of the receipt of a request, pursuant to paragraph (1) subsection (d) of Section 17, of the Act. Failure to hold an informal conference in the time limits specified in this subsection will not be considered as grounds for dismissal of the assessment, unless the operator proves actual prejudice and makes timely objection to the delay. The assessment officer shall consider all relevant information on the violation including information which may be provided pursuant to paragraphs (b) and (d) of this subsection. Within thirty (30) days after the conference is held the assessment officer shall either:

(1) Settle the issue, in which case a settlement agreement shall be prepared and signed by the assessment officer on behalf of the Director and by the person assessed;

(2) Affirm, raise, lower, or vacate the penalty; or

(3) Terminate the conference when it is determined that the issues cannot be resolved or that the person assessed is not diligently working toward resolution of the issues.

(f) Settlement Agreement. If a settlement agreement is entered into, the person assessed will be deemed to have waived all rights to further review of the violation or penalty in

question, except as otherwise expressly provided for in the settlement agreement. The settlement agreement shall contain a clause to this effect. If full payment of the amount specified in the settlement agreement is not received by the Director within thirty (30) days after the date of signing, the Director may enforce the agreement or rescind it and affirm, raise, lower or vacate the penalty within thirty (30) days from the date of the rescission.

(g) Rules of Evidence. At formal review proceedings pursuant to section 17 of the Act, no evidence as to any statement made or evidence produced by one party at a conference shall be introduced as evidence by another party, or may be used to impeach a witness.

(h) Fact of Violation. The fact of violation may not be contested in a civil penalty review proceeding, if it has already been decided in a formal review proceeding under paragraph 1 subsection (d) of section 17 of the Act.

(i) Escrow. If a person requests judicial review of a proposed assessment, the proposed penalty assessment shall continue to be held in escrow until completion of the judicial review.

(j) Penalty Adjustment. When an administrative or judicial review of a civil penalty order results in an order increasing the penalty, the person to whom the notice or order was issued shall pay the amount of the increase within fifteen (15) days after the order is mailed to each person.

(k) Mitigation. Unless caused by lack of diligence, inability to comply may be considered in mitigation of the amount of civil penalty.

20.7 Assessment Rates.

(a) History of Violations. History of previous violations is an accounting of all Notices of Violation and Cessation Orders that were written on the subject operation in the previous twelve (12) months. Notices of Violation and Cessation Orders which were withdrawn or vacated shall not be included in the accounting. The dollar amount to be assessed shall be determined by multiplying the number of violations by a factor of one hundred (100).

(b) Seriousness of the violation.

1-2 Violation is of an administrative nature resulting in no harm or danger to the environment or public: or the standard is violated to such a minor degree that environmental harm or public danger will not result.

3-4 Violation results in potential or actual harm or danger remaining in the permit area; or in the case where the impact extends beyond the permit area; can be demonstrated that potential danger or harm or will not result.

5-6 Violation extends beyond the permit area and results in a minor degree of potential or actual harm or impact on the public.

7-8 Violation can reasonably be expected to result in significant imminent environmental harm or create an imminent danger to the health and safety of the public. A violation which initially has a seriousness rating of 7 or higher is one which must be an imminent harm cessation order, as set forth in paragraph (a), subsection 20.3 of these regulations.

9-10 Violation extends beyond the permit area and results in a significant degree of environmental harm or danger to the public.

Rating	0	1	2	3	4	5	6	7	8	9	10
Dollar Amount	-	100	200	400	600	900	1200	1600	2100	2700	3500

(c) Operator Negligence.

0 This violation is considered beyond the control of the operator or his employees and no negligence can be attributed to this violation.

1-2 This violation was a result of an oversight on the part of the operator and may have been avoided if more conscientious effort and/or reasonable care were given.

3-4 This violation was obvious and/or no action was taken by the operator to prevent the problem.

5-6 The operator failed to adequately respond to previous written instructions of the inspector to prevent this event.

7-8 The operator had been officially notified, in writing, of this problem and did not make any effort at correcting the problem.

Rating	0	1	2	3	4	5	6	7	8
Dollar Amount	0	100	225	350	475	600	725	875	1000

(d) Operator's Good Faith

Good faith percentage shall not include a history of violations in the amount. Good faith percentage shall be rounded to the nearest dollar amount.

0 Operator failed to take appropriate remedial action. Violation has been modified to a cessation order.

1-2 Operator took prompt, but insufficient remedial action to fully abate the violation within the required abatement period. Abatement period was extended for just cause. Remedial action was completed prior to the end of the extended abatement period.

3-4 Operator took prompt remedial action and worked diligently to abate the violation. Conditions beyond the operator's control prevented full abatement and required that the abatement period be extended for just cause. Abatement of the violation was accomplished before the end of the extended abatement period.

5-6 Operator initiated remedial action immediately and expended all reasonable efforts to abate the violation. Violation was abated before the end of the original abatement period.

7-8 Operator was already taking remedial action at the time the violation was noted, and expended exemplary effort in abating the violation before the end of the original abatement period.

Rating	0	1	2	3	4	5	6	7	8
%	0%	5%	10%	15%	20%	25%	30%	35%	40%

(e) Determination of Penalty Amount

Seriousness of Violations $_____

Operator Negligence +$_____

Subtotal $_____

Less Good Faith % -$_____

Sub Total $_____

History of Violations +$_____

Total $_____

20.8 When an Individual Civil Penalty May be Assessed:

(a) Except as provided in paragraph (b) of this subsection, the Director may assess an individual civil penalty against any corporate director, officer or agent of a corporate permittee who knowingly and willfully authorized, ordered, or carried out a violation, failure or refusal.

(b) The Director shall not assess an individual civil penalty in situations resulting from a permit violation by a corporate permittee until a cessation order has been issued by

the Director to the corporate permittee for the violation and the cessation order has remained unabated for thirty (30) days.

20.9 Amount of Individual Civil Penalty.

(a) In determining the amount of an individual civil penalty assessed under subsection 20.8 of these regulations, the Director shall consider the criteria specified in subsection (c) of Section 17 of the Act.

(b) The penalty shall not exceed $5,000 for each violation. Each day of a continuing violation may be deemed a separate violation and the Director may assess a separate individual civil penalty for each day the violation, failure or refusal continues, from the date of service of the underlying notice of violation, cessation order or other order incorporated in a final decision issued by the Director until abatement or compliance is achieved.

20.10 Procedure for Assessment for Individual Civil Penalty.

(a) The Director shall serve on each individual to be assessed an individual civil penalty a notice of proposed individual civil penalty assessment, including a narrative explanation of the reasons for the penalty, the amount to be assessed, and a copy of an underlying notice of violation and cessation order.

(b) The notice of proposed individual civil penalty assessment shall become a final order of the Director thirty (30) days after service upon the individual unless:

(1) The individual files within thirty (30) days of service of the notice of proposed individual civil penalty assessment a petition for review with the Surface Mine Board; or

(2) The Director and the individual or responsible corporate permittee agree within thirty (30) days of service of the notice of proposed individual civil penalty assessment to a schedule or plan for the abatement or correction of the violation, failure, or refusal.

(c) For purposes of this subsection, service is sufficient if it would satisfy state requirements for service of a summons and complaint.

20.11 Payment of Penalty

(a) If a notice of proposed individual civil penalty assessment becomes a final order in the absence of a petition for review or abatement agreement, the penalty shall be due upon issuance of the final order.

(b) If an individual named in a notice of proposed individual civil penalty assessment files a petition for review in accordance with subparagraph (1), paragraph (b), subsection 20.10 of this section, the penalty shall be due upon issuance of a final administrative order affirming, increasing, or decreasing the proposed penalty.

(c) Where the Director and the corporate permittee or individual have agreed in writing on a plan for the abatement of or compliance with the unabated order, an individual named in a notice of proposed individual civil penalty assessment may postpone payment until receiving either a final order from the Director stating that the penalty is due on the date of such final order, or written notice that abatement or compliance is satisfactory and the penalty has been withdrawn.

20.12 Fees and Costs of Administrative Proceedings.

(a) Request for Fees. Any person may on request be awarded by the appropriate board or court a sum equal to costs and expenses including attorneys' fees and expert witness fees as determined to have been reasonably incurred. Such request must be filed within forty-five (45) days of date of entry of judgment.

The request shall include an affidavit setting forth costs and expenses and an itemized statement of attorneys' fees. The request shall be served upon all parties who shall have thirty (30) days to answer the request. Cost and expenses including attorneys' fees may be awarded to:

(1) Any participating party against the violator upon a finding that there is a violation of the Act, the regulations or the permit has occurred, and there is a determination that the party made a significant contribution to the full and fair determination of the issues;

(2) To any participating party other than the violator or his representative from the Division of Environmental Protection upon a determination that the party made a significant contribution to a full and fair determination of the issues;

(3) To a violator from the Division of Environmental Protection when the violator demonstrates that the Division of Environmental Protection issues cessation order, a show cause order or notice of violation in bad faith and for the purpose of harassing or embarrassing the violator, provided that no award shall be made under this subsection if the Division of Environmental Protection prevails upon the issue of a violation;

(4) To a violator from any participating party other than the Division of Environmental Protection where such participating parties initiated or participated in the magistrate proceeding in bad faith and for the purpose of harassing or embarrassing the violator; and

(5) To the Division of Environmental Protection from any participating party where the Division of Environmental Protection demonstrates that any such party participating in such proceeding in bad faith and for the purpose of harassing or embarrassing the Division of Environmental Protection. An award may also include attorneys' fees and expert witness fees expended in obtaining an award of costs, expenses and attorneys' fees. Decisions on such awards may be appealed as other cases under the Act.

38-2-21 Surface Mine Board.

21.1 Open Meetings.

(a) General. All meetings of the Surface Mine Board, pursuant to the provisions of the Act shall be open to the public.

(b) Public Notice. The time, and place of all regularly scheduled meetings and the time, place and purpose of all special meetings shall be made available to the public and the news media by publishing a notice containing at least the above information in a newspaper of general circulation in the county where the site or environmental concern exists, or if the matter under consideration is of general interest to the people of the State in a newspaper of general circulation in the State.

(c) Emergency Meetings. In the event of any emergency requiring immediate official action such efforts to notify the public shall be taken as circumstances allow.

21.2 Appeals to the Surface Mine Board.

(a) Site Visits. The board may visit the site of the activity or proposed activity which is the subject of the hearing and take such additional evidence as it deems necessary provided that all parties and interveners be given notice of the visit and are given an opportunity to accompany the Board.

(b) Final Orders. On all appeals to the Board, the Board shall issue a final decision thirty (30) days after the hearing or within thirty (30) days after the testimony presented at the hearing has been transcribed and checked for accuracy.

(c) Burden of Proof. The burden of proof shall be on the party seeking to reverse the decision of the Director.

21.3 Ex parte Communication.

(a) Prohibition. Ex parte contacts between representatives of the parties appearing before the Board and members or representatives of the Board shall be prohibited.

38-2-22 Coal Refuse

22.1 Applicability - Any surface coal mining operation which involves the construction, operation, enlargement, modification, removal and/or abandonment of a coal refuse site shall be subject to the special provisions of this section in addition to other applicable permitting requirements, performance standards, and enforcement provisions of these regulations, the Act, and other State and Federal laws and regulations.

22.2 Certification - For purposes of permitting, the applicant shall submit a separate set of maps, plans, design data, and specifications for the refuse disposal facility, in addition to those contained in the permit application.

The disposal facility shall be designed using current, prudent engineering practices. A qualified registered professional engineer, experienced in the design of similar earth and refuse structures, shall certify the design of the disposal facility. The disposal facility shall be designed to attain a minimum long-term static safety factor of 1.5 and a seismic factor of safety of 1.2. The stability of all foundations and abutments must be maintained during all phases of construction.

22.3 Permit Requirements - General - In addition to the other permitting requirements of the Act, these regulations, and the requirements of 30 CFR 77.214 and 30 CFR 77.215, each permit application which involves a coal refuse site shall contain the following materials:

(a) Narrative. A general narrative and discussion of the project to include at a minimum a discussion of existing site conditions, the design life of the facility, quantity and type of coal refuse to be placed on the site, subsidence potential method of operation to include clearing and grubbing, topsoil stockpiling, construction of surface and subsurface drainage facilities, phases of construction, method and location of coal refuse placement or removal, coal refuse placement during inclement weather, routine inspection and maintenance, procedure to be followed in the event the site is abandoned prior to the planned design life, and a sequence for construction of drainage facilities, critical construction phases, reclamation and final abandonment procedures. In addition, include a description of the duties, responsibilities and lines of communication of those persons responsible for the design and construction of the coal refuse disposal site. All data, graphs, curves, etc., which provide the basis for hydrologic and hydraulic design of coal refuse embankments and impoundments shall accompany other design

data, plans, and specifications, submitted as part of the permit application.

(b) Plan View. A plan view of the site showing detailed contours, limits of the coal refuse disposal site, all drainage facilities, location of springs, seeps, mine drainage and/or openings, location of the subdrain system, project stationing, location of cross sections, location of borings, test pits and instrumentation and other pertinent data required for project control.

(c) Cross Sections. Cross sections of the coal refuse disposal site transversely and longitudinally showing original ground, finished elevations, final configuration of refuse material, subdrains, diversion details, spillways, and other pertinent features of the site. Cross section shall be of sufficient accuracy and detail so as to provide a basis for stability computations at critical locations.

(d) Sediment Control Plan. A sediment control plan designed in accordance with subsection 5.4 of these regulations.

(e) Diversions. Each application shall contain plans and specifications for a diversion channel above the coal refuse site to direct surface water runoff from the contributing watershed around the facility. Such diversion channel shall be designed in accordance with subsection 5.3 of these regulations except as follows:

(1) Design storm. All diversion ditches and stream channel diversions shall be designed to carry the peak runoff from a one-hundred (100) year frequency, twenty-four (24) hour duration rainfall.

(2) A freeboard equal to or greater than $1+.025vd^{1/3}$ shall be added to the design flow depth to obtain the total depth of the diversion ditch.

(3) Each diversion ditch must be designed to carry the peak flow with freeboard from the contributing watershed area.

(4) Diversions shall be designed, constructed, and maintained in a manner which prevents additional contributions of suspended solids to stream flow and to runoff outside the permit area to the fullest extent possible.

(5) Excess excavated material not required for construction or maintenance of the diversion ditch must be properly disposed of in the permit area.

(6) Topsoil removed from the channel excavation shall either be redistributed on another part of the permit area or stockpiled for a later use.

(7) All diversion systems shall exit safely beyond the toe of the embankment in a natural drainway capable of carrying the design flow without excessive erosion.

(8) All stream channel diversions must be designed to carry the design flow around the disturbed area. The diversions must outlet into the original channel or a natural channel of equal cross section.

(9) Diversions in refuse must be lined with soil or a suitable substitute unless other erosion protection is provided.

(10) Permanent diversion systems designed to convey water under a coal refuse embankment by means of a pipe or conduit are unacceptable. However, diversion by means of a pipe or conduit may be permitted during active operation, provided that (1) height or storage limits for impoundments are not exceeded, (2) the pipe or conduit is used in conjunction with surface ditches to meet applicable design storm requirements, and (3) the design of the pipe or conduit accounts for durability and design life, load limits, joint sealing, trash rack protection, and maintenance requirements throughout the operational life of the structure.

(f) Design and Specifications for Hydraulic Structures. Such structures shall be designed to safely control excessive erosion by using energy dissipaters and/or channel protection, as necessary, based upon design flow velocity. Seepage control devices shall be used to prevent undercutting of nonflexible linings. The potential for landslides or slope failures shall be considered in the location of all hydraulic structures. Channels shall not be located on or near an existing landslide. No surface runoff or slurry may be diverted into underground mines unless approved by the Director in accordance with paragraph (e) subsection 14.5 of these regulations.

(g) Computations. The application shall include all design data and calculation results. If a computer analysis is used, only the input data and results used specifically in the design need be submitted. If graphical flood routing techniques are

used, all charts and graphs shall be included. Adequate cross sections and profiles shall be given for all hydraulic structures.

(h) All coal refuse impoundments must be analyzed and/or designed in accordance with this subsection. Non-impounding coal refuse embankments must be designed in accordance with this subsection unless any proposed modifications to the design standards of this subsection are justified through appropriate stability analysis. The following structural analysis and/or design data of coal refuse embankments and impoundments shall be presented in graphical or tabular form:

(1) A sufficient subsurface investigation shall be performed by a registered professional engineer or engineering geologist. The number, location, and depth of borings, test pits, and/or trenches shall be reasonable for the size, purpose, soils present, and foundation type of the structure. The investigation shall consider depth of soil to bedrock, field classification of soils, character of bedrock, in situ testing, soil sampling, determination of groundwater flow and location of seeps and springs, and a soil profile for critical locations in the structure, hydraulic structures and other pertinent locations which may affect the safety of the structure. The number, depth, and location of boreholes shall be based on the quantity of material to be impounded and subsurface conditions. A geologic study shall also be conducted for impounding structures to evaluate landslides into the impoundment, bedrock discontinuities such as soft seams, joints, joint systems, bedding planes, and fault zones which may adversely affect the structure's performance. Past and future mining to include height of seam, depth and cover rock of the seam, and previous subsidence problems shall be considered where subsidence may affect the safety of the structure.

(2) Laboratory tests shall be conducted on all foundation and embankment materials to include soil classification through hydrometer analysis, density, water content, compaction tests, shear strength, consolidation, and permeability unless the scope, characteristics, or design concept of the site make one or more of these requirements unnecessary.

(i) Safety Factors. A description including plans, design data, specifications, and computations of how safety conditions will be achieved. The disposal facility shall be designed, constructed, and maintained to attain a minimum long-term safety factor of 1.5; provided further that a coal refuse site which has

the capability to impound water shall also attain a seismic safety factor of at least 1.2.

(j) Liquefaction. Describe the potential for liquefaction and provide safeguards against the development of this condition.

(k) Instrumentation. A description of installation of instrumentation such as piezometers, settlement markers, slope indicators, and similar monitoring devices shall be included in the plan to monitor present hazardous conditions, construction conditions, and to verify design assumptions. A plan for monitoring these devices shall also be provided.

(l) Stability Analysis. All stability analyses shall be done using standard engineering techniques. The submittal shall include cross sections at critical locations in the facility showing the materials profile, location of critical potential failure surfaces and their factors of safety, estimated or measured phreatic surfaces for construction and/or long term seepage conditions, and a tabulated listing of strength parameters used. If a computer analysis is used, only the input data and results used specifically in the design shall be submitted.

(m) Underdrains. If the disposal area contains springs, natural or manmade water courses, or wet weather seeps, the application shall include diversions and underdrains as necessary to control erosion, prevent water infiltration into the disposal facility and ensure stability. Diversions and underdrains shall be designed as follows:

(1) Runoff from the areas above the refuse pile and runoff from the surface of the refuse pile shall be diverted into stabilized diversion channels designed in accordance with paragraph (e) of this subsection and subsection 5.3 of these regulations to safely pass the runoff from a one hundred (100) year, twenty-four (24) hour precipitation event. Runoff diverted from undisturbed areas need not be commingled with runoff from the surface of the refuse pile. Uncontrolled surface drainage may not be diverted over the outslope of the refuse piles.

(2) Underdrains shall consist of durable rock or pipe, and be designed and constructed using current, prudent engineering practices. The underdrain system shall be designed to carry the anticipated seepage of water due to rainfall and from seeps and springs in the foundation of the disposal area away from the site, and shall be protected from piping and contamination by an adequate filter. Rock underdrains shall be

constructed of durable, nonacid, nontoxic-forming rock (e.g., natural sand and gravel, sandstone, limestone, or other durable rock) that does not slake in water or degrade to soil material, and which is free of coal, clay or other nondurable material. Perforated pipe underdrains shall be corrosion resistant and shall have characteristics consistent with the long-term life of the fill.

(n) Site Preparation. Procedures for clearing and grubbing.

(o) Excess Material. Procedures for disposal of excess material resulting from clearing, grubbing, and other site preparation activities.

(p) Compaction Requirements. Procedures for spreading and compaction of refuse material during placement. The material shall be compacted in layers not exceeding two (2) feet in thickness and shall not have any slope exceeding two horizontal to one vertical, except that the Director may approve construction of a refuse pile in compacted layers exceeding two (2) feet in thickness , where engineering data substantiates that both a minimum static safety factor of 1.5 and a minimum seismic safety factor of 1.2 will be attained; provided, that the operator shall submit plans for the Director's approval, and shall also provide documentation showing prior approval by MSHA pursuant to Federal regulations at 30 CFR 77.215(h) for the alternate construction, without which documentation the plans will not be approved.

(q) Sealing Abandoned Openings. Plans in accordance with 30 CFR 75.1711 for sealing abandoned openings and covering the seal with four feet of an impermeable non-toxic material. Such plans shall consider prevention of water buildup behind the seals, toxicity of the refuse and mine strata, gradient of the opening, hydrologic balance and passage of any acid water to a treatment facility. If a mine seal is in the impoundment area of an impounding coal refuse disposal site, the seal shall be designed to safely withstand full hydrostatic head with a factor of safety of at least 1.5 against blowout. Higher factors of safety may be required where dictated by the consequences of failure. Calculations and cross sections used in the analyses shall be submitted.

(r) Extinguishment of Burning Areas. Plans approved by MSHA for the extinguishment of burning areas which contain, at a minimum, method of extinguishment, safety measures for equipment operators and persons working or living in the vicinity of the

site, and a provision that only those persons authorized by the operator, shall be involved in the extinguishing operation.

(s) Underground Disposal. Plans for underground refuse disposal shall be submitted to and approved by the Director and the Mine Safety and Health Administration. All plans must include:

(1) Method of disposal including a description of the source of the transport medium;

(2) Maps of mines where coal refuse materials are to be disposed with a description of the percent of mine void to be filled;

(3) Description of location of active workings including plans, specifications, and methods of constructing underground retaining walls;

(4) Potential areas of breakout in active mine workings and on the surface of the ground;

(5) Effects of subsidence on the plan;

(6) The effects on the hydrologic regime including the location and description of permanent monitoring wells or monitoring stations;

(7) Gradient of the mine from the backfill area;

(8) Description of the stratum underlying the mined coal;

(9) Source and quality of the refuse;

(10) The method of treatment of water if released to surface streams;

(11) A contingency plan formulated to alleviate or correct any hazardous conditions which may result from a blowout; and

(12) A description of the surface area to be supported by the refuse backfill, the anticipated surface effects following backfilling, and the method for dewatering the backfill.

(t) Abandonment Plan. An abandonment plan which addresses the following requirements and include a schedule for their implementation:

(1) No refuse embankment or impoundment may be abandoned until approved by the Director.

(2) The final top elevation of the refuse embankment must be higher than, and sloped into, the diversion ditch. Maximum slope of the top of the embankment to the diversion ditch shall be five (5) percent unless otherwise approved by the Director.

(3) All pipes under refuse areas left as non-impounding fills shall be sealed with concrete at the upstream end prior to abandonment.

(4) At abandonment all fine refuse in the impoundment pool shall be covered with a minimum three foot layer of coarse refuse or other fill material prior to topsoiling unless otherwise approved by the Director.

(5) At abandonment all coal refuse shall be covered with a minimum of four (4) feet of the best available non-toxic and non-combustible material in a manner that does not impede flow from sub-drainage systems. The Director may allow less than four (4) feet of cover material where it can be demonstrated on the basis of physical and chemical analyses of the growth medium that the vegetation requirements of Section 9 of these regulations will be met.

(6) A certificate of approval for completion of construction shall be issued upon completion of the above requirements.

22.4 Permit Requirements - Impounding Structures. In addition to the requirements of the Act and these regulations, coal refuse disposal sites which have the capability of impounding water shall be subject to the special requirements of this subsection and may be subject to other State and Federal laws and rules and regulations, depending on their embankment size and holding capacity.

(a) Dam Control Act. A coal refuse site which is constructed in such a manner that it: (1) Rises twenty-five (25) feet or more above the natural bed of a stream or watercourse as measured from the downstream toe of the embankment and which does or can impound fifteen (15) acre-feet or more of water, or; (2) Rises six (6) feet or more above the natural bed of a stream or watercourse as measured from the downstream toe of the embankment and which does or can impound fifty (50) acre-feet

or more of water is by definition a dam and is thereby subject to the provisions of the West Virginia Dam Control Act set forth in Chapter 22, Article 14, of the Code of West Virginia.

(b) Mine Safety and Health Administration (MSHA) Impoundments. A coal refuse site which is constructed in such a manner that it can impound water, sediment, or slurry to an elevation of: (1) Five (5) feet or more above the upstream toe of the structure and can have a storage volume of twenty (20) acres/feet or more, or; (2) Twenty (20) feet or more above the upstream toe of the structure, or; (3) Presents a hazard to coal miners as determined by the District Manager of the Federal Mine Safety and Health Administration, shall be subject to the requirements of 30 CFR 77.215 and 77.216 of the Federal Mine Safety and Health Administration Regulations.

(c) Small Impoundments. Coal refuse sites which result in impoundments which are not subject to the Dam Control Act or the Federal Mine Health and Safety Act shall be designed, constructed, and maintained subject to the requirements of this subsection and subsections 5.4 and 22.5 (j)(6) of these rules and regulations.

(d) Hazard Potential. The hazard potential of coal refuse sites which have the capability of impounding water shall be determined by the applicant based on the potential loss of life that would result due to a failure and the classification determined on the basis of the following criteria:

(1) Class A. Impoundments located in rural or agricultural areas where failure may damage farm buildings, agricultural land, or secondary highways. Failure of the structure would cause only loss of the structure and loss of property use such as related roads, but with little additional damage to adjacent property. Any impoundment exceeding twenty-five (25) feet in height measured at the downstream toe or two-hundred (200) acre-feet storage volume or having a watershed exceeding five hundred (500) acres shall not be a Class A structure.

(2) Class B. Impoundments located in predominantly rural agricultural areas where failure may damage isolated homes, primary highways or minor railroads or cause interruption of relatively important public utilities. Failure of the structure may cause great damage to property and project operations.

(3) Class C. Impoundments located where failure may cause loss of life, serious damage to homes, industrial and

commercial buildings, important public utilities, primary highways, or main railroads. This classification must be used if failure would cause possible loss of human life.

(e) Emergency Planning. For a Class C structure or if a dangerous condition exists, notification and action procedures shall be formulated by the operator or owner, for public protection and remedial action in the event of an emergency. All emergency procedures must be submitted and become part of the approved plan. If adequate emergency procedures cannot, for whatever reason, be formulated by the owner or operator, then he must so notify the Director in writing. The Director may then notify the Office of Emergency Services and request that emergency procedures be developed for the coal refuse site.

(f) Design Storm Specifications. All refuse impoundments and dams shall be designed to meet the following design storm criteria based upon hazard classification.

(1) Class A impoundments shall be designed for a minimum of $P_{100} + 0.12(PMP-P_{100})$ inches of rainfall in six (6) hours.

(2) Class B impoundments shall be designed for a minimum of $P_{100} + 0.40(PMP-P_{100})$ inches of rainfall in six (6) hours.

(3) Class C impoundments shall be designed for a probable maximum precipitation (PMP) of a six (6) hour or greater event plus three feet of freeboard.

(g) Primary and Emergency Spillway Design. All impoundments meeting the size or other criteria of 30 CFR 77.216(a) must be designed and constructed to safely pass the probable maximum precipitation of a twenty-four (24) hour storm event. All impoundments of a lesser size must be capable of passing through a spillway or outlet works or a combination thereof, that portion of the design storm that cannot be safely stored in the impoundment and to draw down the stored portion of the design storm within the specified terms in accordance with the following:

(1) Class A impoundments must be designed with an open channel spillway unless otherwise approved by the Director, Ninety (90) percent of the stored portion of the design storm must be discharged or removed within ten (10) days after the storm event.

(2) Class B impoundments shall be designed with either an open channel spillway only, or with an emergency spillway and a principal spillway together. Ninety (90) percent of the stored portion of the design storm shall be discharged or removed within ten days after the storm event.

(3) Class C dams may be designed in one of three ways:

(A) An impoundment designed without discharge structures shall be capable of storing a minimum of two (2) six (6) hour duration probable maximum storms. Water shall be removed from the impoundment to its lowest practical level within ten (10) days after the storm event by pumping or by other means if storm water reduces the storage capacity to one probable maximum storm or less.

(B) An impoundment designed with a decant or principal spillway only shall be capable of storing at least one (1) six (6) hour duration probable maximum storm. Ninety (90) percent of the stored portion of the storm shall be discharged or removed within ten (10) days after the storm event.

(C) An impoundment designed with either an open channel spillway only, or with an emergency spillway and principal spillway together shall be capable of discharging that portion of the six (6) hour duration probable maximum storm that cannot be safely stored in the impoundment. Ninety (90) percent of the stored portion of the storm shall be discharged or removed within ten (10) days after the storm event.

(4) A single open channel spillway may be used only if it is:

(A) Of non-erodable construction and designed to carry sustained flows; or

(B) Earth or grass-lined and designed to carry short term, infrequent flows at non-erosive velocities where sustained flows are not expected.

(h) Open Channel Spillways. All open channel spillways must comply with the design standards of this section and the following additional standards:

(1) Any open channel spillway designed for less than one hundred (100) percent probable maximum precipitation shall be provided with freeboard above the maximum water surface as determined by the equation $1+.025vd^{1/3}$.

(2) All open channel spillways shall be constructed of non-erodable material where sustained flows are expected, or may be of earth or grass lined construction where short term infrequent flows at nonerosive velocities, are expected.

(3) Excess excavated material not needed to construct and maintain the spillway channel must be properly disposed of in the permit area.

(4) Topsoil removed from channel excavation shall either be redistributed on another part of the permit area or stockpiled for future use.

(i) Pipe Spillways. All pipe spillways must comply with the requirements of this section and the following additional requirements:

(1) The pipe spillway inlet must be protected by a designed trash rack.

(2) All riser-type spillways must be designed to prevent vortexing.

(3) A skimming device is required where floating pollutants exist or are anticipated.

(4) An adequate foundation and bedding shall be designed for all pipes and risers.

(5) All pipe spillways shall be designed to provide seepage control along the conduit.

(6) The pipe spillway shall be of sufficient strength to withstand the maximum load of the fill above it.

(7) All pipe spillways shall be constructed of suitable material to resist deterioration for the design life of the facility.

(8) The outlet of all pipes, where blockage by animals can occur, must be protected by an animal guard.

22.5 Performance Standards. The following performance standards shall be met for all coal refuse disposal sites.

(a) Controlled Placement. All coal refuse sites shall be placed in new or existing disposal areas within a permit area designated for this purpose. Coal mine refuse shall be placed in a controlled manner to:

(1) Minimize adverse effects of leachate and surface-water runoff on surface and ground water quality and quantity;

(2) Ensure mass stability and prevent mass movement during and after all phases of construction and be constructed and maintained in such a manner so as to attain a minimum long-term safety factor of 1.5 provided that structures which have the capacity to impound water shall also attain a seismic safety factor of 1.2;

(3) Ensure that the final disposal facility is suitable for reclamation and revegetation compatible with the natural surroundings and the approved postmining land use;

(4) Not create a public hazard; and

(5) Prevent combustion.

(b) Extraneous Refuse. Coal mine refuse material from activities located outside a permit area may be disposed of in the permit area only if approved by the Director. Approval shall be based upon a showing that such disposal will be in accordance with the standards of this section.

(c) Slope Protection. Slope protection shall be provided to minimize surface erosion at the site. All disturbed areas, including diversion channels that are not riprapped or otherwise protected, shall be revegetated upon completion of construction.

(d) Site Development. Clearing and grubbing shall be performed in the disposal area prior to placement of refuse material. Topsoil shall be removed, segregated, and stored or redistributed in accordance with subsection 14.3 of these regulations. If approved by the Director, organic material may be used as mulch, or may be included in the topsoil to control erosion, promote growth of vegetation, or increase the moisture retention of the soil.

(e) Final Configuration. The final configuration of the refuse pile shall be suitable for the approved postmining land use. Terraces may be constructed on the outslope of the refuse pile if required for stability, control or erosion, conservation of soil moisture, or facilitation of the approved postmining land

use. The grade of the outslope between terrace benches shall not be steeper than 2h:1v (50 percent).

(f) Impoundment Within Fill Areas. No permanent impoundments shall be allowed on the completed refuse pile. Small depressions may be allowed if they are needed to retain moisture, minimize erosion, create and enhance wildlife habitat, or assist revegetation, and if they are not incompatible with stability of the refuse pile.

(g) Topsoiling. Following final grading of the refuse pile, the coal mine refuse shall be covered with a minimum of four (4) feet of the best available, nontoxic and noncombustible material, in a manner that does not impede drainage from the underdrains. The Director may allow less than four (4) feet of cover material based on physical and chemical analyses which show that the revegetation requirements of Section 9 of these regulations will be met.

(h) Notification of Hazardous Conditions. If any examination or inspection discloses that a potential hazard exists, the Director shall be informed promptly of the finding and of the emergency procedures formulated for public protection and remedial action. If adequate procedures cannot be formulated or implemented, the Director shall be notified immediately. The Director shall then notify the appropriate agencies that other emergency procedures are required to protect the public.

(i) Disposal in Underground Workings. Coal mine refuse may be disposed of in underground mine workings in accordance with the provisions of paragraph (s) of subsection 22.3 of this section.

(j) Construction Specifications. New and existing impounding structures constructed of coal mine refuse or intended to impound coal mine refuse shall meet the following requirements:

(1) Coal mine refuse shall not be used for construction of an embankment which impounds water unless it has been demonstrated to the Director that the stability of such a structure conforms to the requirements of this section and the use of coal mine refuse will not have a detrimental effect on downstream water quality or the environment due to acid seepage through the impounding structure. The stability of the structure and the potential impact of acid mine seepage through the impounding structure shall be discussed in detail in the design plan.

(2) If an impounding structure constructed of coal mine refuse or intended to impound coal mine refuse meets the criteria of paragraph (c) of subsection 22.4 of this section, the combination of principal and emergency spillways shall be designed and constructed in accordance with paragraphs (g) and (h) of subsection 22.4 of this section.

(3) Spillways and outlet works shall be designed to provide adequate protection against erosion and corrosion. Inlets shall be protected against blockage.

(4) Runoff from areas above the disposal facility or runoff from surface of the facility that may cause instability or erosion of the impounding structure shall be diverted into stabilized diversion channels designed to safely pass the runoff from a one hundred (100) year, twenty-four (24) hour precipitation event.

(5) Impounding structures constructed of or impounding coal mine refuse shall be designed so that at least ninety (90) percent of the water stored during the design precipitation event can be removed within a ten (10) day period.

(6) No coal refuse impoundments shall remain as permanent impoundments. Upon completion of reclamation, such structures shall not be capable of storing or impounding water.

(7) Slope protection shall be provided to protect against erosion and sudden drawdown. Embankment faces shall be vegetated or otherwise stabilized in accordance with approved procedures.

(k) Drainage and Sediment Control. Drainage control measures shall meet the requirements of Section 5 of these regulations. After grade release, discharges from the permit area shall not lower the water quality of receiving streams.

(l) Removal of Abandoned Coal Refuse Piles. Where coal refuse is to be removed from an abandoned coal refuse disposal area under a special permit issued pursuant to subsection (d) Section 28 of the Act and subsection 3.14 of these regulations, the following standards shall be met:

(1) Removal of refuse shall be complete when possible and shall be accomplished in successive horizontal lifts with a maximum elevation difference between working benches of twelve (12) feet or may be removed down a slope from the top to the toe

provided that the slope is no steeper than 2H:1V. No refuse may be removed from the toe of the original embankment until the final removal process.

(2) At all times during removal operations, care shall be exercised to protect the operating personnel, the public, and to insure long-term stability in accordance with the approved plan.

(3) Where partial removal is approved, the final graded slopes of the remaining refuse shall be no steeper than 2H:1V and have at least one bench for every fifty (50) feet of change in elevation.

(4) Should burning areas be encountered, the fires shall be extinguished in accordance with paragraph (m) of this subsection, and removal of refuse shall be done in a safe manner. The final graded slopes of the coal refuse pile shall result in a stable configuration having a static safety factor of 1.5 as demonstrated by a stability analysis.

(5) The total disturbed area shall be regraded in such a manner as to be compatible with the natural surroundings and shall be revegetated in accordance with Section 9 of these regulations. Such regrading and revegetation shall occur as contemporaneously as practicable with removal operations as reflected in the reclamation plan.

(6) All remaining refuse materials disturbed by the operation shall be covered with a minimum of four feet of cover of non-toxic and non-combustible material sufficient to establish adequate vegetation except that a lesser cover may be used based on chemical and physical analysis in accordance with paragraph (k), subsection 9.2, of these regulations.

(7) Regrading drainage control shall be provided in accordance with the approved reclamation plan.

(m) Burning Refuse Piles. Where burning or burned refuse is encountered in the construction of a new structure or the reconstruction or removal of an existing structure, the following standards shall be met:

(1) Coal mine refuse fires shall be extinguished by the person who conducts the surface mining activities, in accordance with a plan approved by the Mine Safety and Health Administration. The plan shall contain, at a minimum, provisions to ensure that only those persons authorized by the operator, and

who have an understanding of the procedures to be used, shall be involved in the extinguishing operations.

(2) No burning or burned coal mine refuse shall be removed from a permitted disposal area without a removal plan approved by the Director. Consideration shall be given to potential hazards to persons working or living in the vicinity of the structure.

22.6 Inspections. A qualified registered professional engineer, or other qualified professional specialist under the direction of the professional engineer, shall inspect the refuse pile during construction. The professional engineer or specialist shall be experienced in the construction of similar earth and refuse structures. Inspection reports shall be retained for review at or near the site.

(a) Non-impounding Structures. Inspections of non-impounding refuse piles shall be made at least quarterly throughout construction and during critical construction periods, which shall include at a minimum:

(1) Foundation preparation including the removal of all organic material and topsoil;

(2) Placement of underdrains and protective filter systems;

(3) Installation of final surface drainage systems; and

(4) The final graded and revegetated facility.

(b) Unscheduled Inspections. Regular inspections by the engineer or specialist shall also be conducted during placement and compaction of coal mine refuse materials. More frequent inspections shall be conducted if a potential danger or harm exists to the public health and safety or the environment. Inspections shall continue until the refuse pile has been finally graded and revegetated or until a later time if required by the Director.

(c) Reporting Requirements. The following reporting requirements shall be met:

(1) The qualified registered professional engineer shall provide a certified report to the Director promptly after each inspection, that the refuse pile has been constructed and

maintained as designed and in accordance with the approved plan, the Act, and these regulations. The report shall include any appearances of instability, structural weakness, and other hazardous conditions; and

(2) The certified report on the drainage system and protective filters shall include color photographs taken during and after construction, but before underdrains are covered with coal mine refuse. If the underdrain system is constructed in phases, each phase shall be certified separately. The photographs accompanying each certified report shall be taken in adequate size and number with enough terrain or other physical features of the site shown to provide a relative scale to the photographs and to specifically and clearly identify the site.

22.7 Impounding Structures. Inspection of impounding refuse piles shall be made by a qualified registered engineer or other qualified professional specialist under the direction of the professional engineer. The professional engineer or specialist shall be experienced in the construction of impoundments.

(a) Inspection Frequencies. Inspection shall be made regularly but not less than quarterly during construction, upon completion of construction, and at least yearly until removal of the structure or release of the performance bond. Inspections will be made during placement and compaction of coal refuse material and during critical construction periods.

(b) Reporting Requirements. The qualified professional registered engineer shall promptly, after each inspection, provide to the Director a certified report that the impoundment has been constructed and maintained as designed and in accordance with the approved plan and these regulations. The report shall include discussions of any appearances of any instability, structural weakness, or other hazardous condition, depth and elevation of any impounded waters existing storage capacity, and existing or required monitoring procedures and instrumentation, and any aspects of the structure affecting stability.

(c) Examinations. Examination of impoundments meeting or exceeding the size specification or other criteria set forth in the Federal Mine Safety and Health Administration regulations at 30 CFR 77.216 shall, in addition to meeting the inspection requirements of paragraphs (a) and (b) of this section, comply with the MSHA requirements of 30 CFR 77.216-3.

Other impoundments shall be examined at least quarterly by a qualified person designated by the operator for appearances of structural weaknesses and other hazardous conditions.

(d) Filing of Reports. A copy of each inspection and examination report shall be retained at or near the mine site.