

Zipf, Richard K. (Karl) (CDC/NIOSH/PRL)

From: Tasillo, Carol L - MSHA [Tasillo.Carol@DOL.GOV]
Sent: Tuesday, February 13, 2007 2:00 PM
To: Zipf, Richard K. (Karl) (CDC/NIOSH/PRL)
Subject: Seal Criteria Report

Attachments: NIOSH Feb07 Seal Criteria Report - Tasillo Editorial.doc



NIOSH Feb07 Seal
Criteria Repo...

Karl, MSHA will be compiling comments on the seal criteria report, but I had some typographical and editorial type comments that I wanted to pass along. They're just editorial and not on content so I didn't want to include them as a formal comment. Anyway, for whatever it's worth, they're just suggestions. If you have any questions, let me know.
Carol

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REVIEW OF NIOSH SEAL CRITERIA

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Provided by Carol L. Tasillo

TYPOGRAPHICAL:

Section 1.2, 1st paragraph - In 5th line change "mined-out area still" to "mined-out areas still".

Section 1.2, 7th paragraph - In 2nd line change "mouth and bleeder end of the panel" to "mouth and bleeder ends of the panel".

Section 3.9, 8th paragraph - In 1st line change "mix will develop vary" to "mix will vary".

Section 4.3, 4th paragraph - In 4th line change "C-J detonation" to "CJ detonation" for consistency.

Section 6, 1st paragraph - In 1st line change "explosion pressure design pressure" to "explosion design pressure".

Section 6.1, last paragraph - Correct the square root symbol, the top bar is not showing.

Section 6.3, 1st paragraph - Correct the square root symbol, the top bar is not showing.

EDITORIAL:

General - Where equations and formulas are shown, the units for the terms in the equations should be shown.

General - Conversion units are shown for some metric values but not all. It is recommended that the English conversions be shown throughout.

Section 1.2, 5th paragraph - The term "cross-cuts" is introduced in the 2nd line. It is recommended that this term be defined with "mains" and "submains" in the previous paragraph.

Section 1.2, 5th, 6th and 7th paragraph - Several terms are introduced in these paragraphs. It is recommended that the following features be labeled on Figures 2A and 2B - gateroads, tailgate, headgate, and mouth.

Section 1.3C - In the 3rd line it is recommended that "constructed behind the retreating longwall" be changed to "constructed with the retreating longwall". In reality the cross-cut seals are constructed ahead of the retreating face, so "ahead of" would also be appropriate.

Section 3.3, 2nd paragraph - The term "combustion front" is used in the text, but Figure 8 refers to the "pressure wave front". If this is the same thing, the term should be standardized. Otherwise the difference should be explained.

Section 5 - Figure 19 is referenced after Figures 20, 21 and 22 are referenced in the text. Recommend renumbering the figures so they appear in order as referenced.

Section 7.2 - It is recommended that a flowchart be added to show the decision tree for determining the seal criteria that should be used.

Table 4 - It would be informative to show the peak pressures that the seal was subjected to and the distance from the ignition point.