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# TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

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October 1, 2007

TO: Internal File

THRU: Pamela Grubaugh-Littig, Permit Supervisor 

FROM: Wayne H. Western, Team Lead *W H W*

RE: Reformat Chapter 5 and Update Subsidence, Hiawatha Coal Company, Hiawatha Mine, C/007/011, Task# 2845

**SUMMARY:**

On August 31, 2007, the Division received an application to reformat Chapter 5 and update the subsidence-monitoring plan.

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TECHNICAL ANALYSIS:

## OPERATION PLAN

### MINING OPERATIONS AND FACILITIES

Regulatory Reference: 30 CFR 784.2, 784.11; R645-301-231, -301-526, -301-528.

**Analysis:**

The Permittee reformatted Chapter 5 of the MRP. The revisions make the text conform to the current rules. The previous Chapter 5 was incorporated mostly 1998, the new format allows the text to more closely follow the current regulations.

**Findings:**

The information in the proposed amendment is considered adequate to meet the requirements of this section.

### SUBSIDENCE CONTROL PLAN

Regulatory Reference: 30 CFR 784.20, 817.121, 817.122; R645-301-521, -301-525, -301-724.

**Analysis:**

**Subsidence Control Plan**

The Permittee changed the subsidence monitoring method from aerial to survey grade global positioning system and submit a subsidence map in the annual report. During the GPS survey the Permittee will monitor for subsidence cracks.

The Division agrees that the change to use GPS for subsidence measurements is adequate to determined ground movement. In addition, the on the ground survey is more likely to find cracks and other surface subsidence features than aerial survey.

**Findings:**

The information in the proposed amendment is considered adequate to meet the requirements of this section.

**RECOMMENDATIONS:**

The Division should approve the amendment.