CEET Application of Electrical Engineering to Mining 90010

Question 1 (10 marks)

You are the Manager of Electrical Engineering at an underground mine. The mine is to install a downtering pumping system at the rear of the longwall blocks. The pumping system will be installed within a cased borehole from the surface to an area in the goal which will become flooded and therefore not be able to be inspected.

Your Mine Operator has requested that you advise him of the requirements to complete the project and an expected time frame. Include the following information:

- What type of certification will be required for the installation? (1 mark).
- b) In relation to the electrical installation:
 - ii Which have are 'safety critical' for the electrical installation? (2 marks)
 - ii) Briefly explain setry each item in i) above is 'safety critical'? (2 marks)
 - W) Which tenns will require a \$4, assessment? (1 mark)
- c) On the spreadsheat provided develop an expected project plan from the start of the project to the completion, giving the expected time frames and project tasks at marks; See spreadsheet over page.

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JR Anderson

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