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Course & Section: BSCpE11S1

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What are Omar's obligation under the given circumstances?

a. If Omar accepts the client's decision and continues to perform his services as an employee of the contractor.

- If Omar decides to accept the client's decision and continues to do his work, his priority/obligation is to make sure that all his professional recommendations and safety concerns are properly documented and communicated to both the contractor and the developer. Omar must formally inform them (could be writing if possible), for removing the protective steel mesh could pose potential health risks due to exposure to low-frequency electromagnetic fields . Doing this Omar fulfills his ethical duty to warn about possible dangers, even if no existing standards require mitigation.

According to the Code of Ethics for Engineers, an engineer's top priority/duty is to "hold paramount the safety, health, and welfare of the public." Since in this situation where Omar already expressed his concern, documenting and communicating it ensures that the responsibility for risk is clearly understood by the decision-makers. However, Omar must only continue doing this work if he reasonably and logically believes that the lack of a steel mesh does not pose an immediate or serious hazard towards anyone in the vicinity. If the danger remains uncertain but minimal, proceeding after properly disclosing his recommendation can still be ethically acceptable.

b. If Omar continues to have concerns regarding this matter and declines further work on the project

- If Omar remains to have concerns for the absence of EMF protection that could endanger future residents, he has the ethical right and possibly the duty to withdraw from the project. This action demonstrates his commitment to the influence of public safety, which overrides obligations to his employer or client. Omar declining any further work done shows that he is maintaining his professional integrity and refusing to be complicit in a project that he believes may harm others, even if the risk is not yet fully proven by regulation he still thought of the possibility of harming others.

Engineering ethics emphasize that when an engineer's professional judgment is overruled in a way that may endanger life, health, or property, they must take further action to

mitigate these possible outcomes that could potentially bring harm to us and others. This includes withdrawal from the project and, if necessary, notification of appropriate authorities should be done. In this case, Omar's decision to step away corresponds with this ethical duty in not participating in a project that he reasonably believes may violate the principle of protection of public welfare.

Honor Pledge:

"I affirm that I will not give or receive any unauthorized help on this activity/exam and that all work will be my own."