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To: Midas _Structural Analysis & Design Program Users

From: Ahmad Abdelrazaq, S.E.

Subject: Comments on the utilization of the Construction Sequence Analysis, including the effects elastic/creep/shrinkage deformation.

One of the challenging aspects of designing complex buildings nowadays, including highrise buildings, is the ability to predict the behavior of the building during temporary construction stage and for under permanent building conditions. Most commercially available programs do not necessarily deal with these issues as accurately and effectively as I would like to see.

Since I have moved to Korea, I have learned and have been using Midas analysis program often in all kinds of structural analysis and design issues and to specifically deal with the following complex and specific structural engineering problems:

- Construction sequence analysis of structures (building, bridges, etc).
- Non linear analysis of complex building structure.
- Buckling analysis
- Evaluating the short term and long term shortening of concrete structure, including the effect of elastic/creep/shrinkage deformations.

I have also successfully utilized the Midas analysis program series in performing additional construction sequence analyses, including the effects of short and long term deformations, for prominent international highrise building projects and other complex structures. While I have not investigated all the other capabilities of the program, my experience with the program has been excellent and this program has been one of the best programs I have utilized.

While the program is written with the latest structural engineering applied mechanics theories in mind, the program does not overlook that the success of the program is very much dependent on the end users, thus keeping the practical engineer's perspectives in mind.