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| sreject: | Mrount Mant - SETTEEEAT OF TE OLESEL ADNERATER JUILOTHE (5ER: 1126) |

We hirre roviewed the structural aspects of the ofesel gerarator bullding setteexnt issut, and we find that edyitional inforeation is required before ute cuapleis our reviev. The additicnal information requires,
 primer meen cagiacted by sionl Hafiz of Section B of the Structural Fagtasartiog Branch.

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Structiral Engineering Eranicl:
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130.25 Indicate, in jeneral, whether the predictabie different: al set:lement was consizerec in the design of all seismic Gategory $!$ Itructures, and If so, state how the effects resulting from this differentiai settlerent was incluced in the pustulated load combinations for these s:ructures.

An acceptable procedure is to consider the effect of the diffarential settlement as aart of the dead load and to use the SRP 2.3 load combinations in conjunction with appropriate $A C$ : Code criteria.

For all Se'smic Category I Structures (inclucing, but nc: 1 imited to diesel generator building), which are lccated on sackfil! and experlencing settlements in excess of that arocictas, arcuide an exaluation of the ability of these structures to withstand the increased sifferertial settlenent. For the diesel jenerator building anc/or an: Sels:ic Category I Structure, which exhibits cracking, evaluate :he effects of the existing and/or anticipated aracks on the perforance of :ne intended fanction of these building.
in acceotable procedures of evaluasion is use the lode cmbinations of SRP 3.3 and the aporooriate AC: Code Gpiteria in sonfunction with Reguldatary iwise 1.60, 1.61, and 1.92, and the corsiseration of tre soil-struct.re interaction setween the s:ructure and the sucter:ing mesid. The alaliated stresses for Seisric Categcry: S:-ucturgs at:
critical locations should be tabulated and compared to that of allowable stresses as stated i. the appropriate ic: Codes.
130.27 (3.3)
130.29

For all Seismic. Category : Structures, which are gartially 'ocated on backfill and partially located on clay, provide a detailed evaluation of the ability of these structures to withstand the differential settlement. The possibility of not having a contact surface between the structures and the backfill should be consitered, otherwise, it should be properly justified.

The acceptable procedure is to use the load combination of SR? 3.8 and the appropriate ACI Code criteria in conjunction with Regulatory guide $1.60,1.61$, and 1.92 , and the consideration of the sofl-structure interaction between the structure and the supporting media. The caleulated stresses for Seismic Category : Structures at critical locations should be tabulated and compared to that of allowable stresses given in the appropriate $A C:$ Codes.

For all Seismic Category piping whether buried or not, provide an evilnation of these piping to withstand the predictable and/or the increased settlement. The differential seismic anchor -ovenent should also be zansicered.

