Table of Contents

Part I: Selecting the Minimum Required FS	4
1.0 Introduction	4
1.1 Data and Methodology	8
1.1.1 Liquefaction triggering models and associated databases us	ed 8
1.1.2 Overview of ROC analysis	11
1.2 Results and Discussion	13
1.2.1 Optimal FS versus CR relationships	13
1.2.2 Optimal PL versus CR relationships	19
1.3 Conclusions	25
Part II: Computing FS Consistent with ASCE 7-16 Requirement	s 27
2.0 Introduction	27
2.1 ASCE 7-16 Earthquake Scenario for Evaluating Liquefaction	28
2.1.1 PGA	28
2.1.2 Magnitude (M)	29
2.2 Finn and Wightman Magnitude-Weighting Scheme	30
2.3 Which Deaggregation Data Should Be Used?	32
2.4 Summary and Conclusions	35
3.0 Acknowledgements	39
4.0 References	40