

ECE 528 – Understanding Power Quality

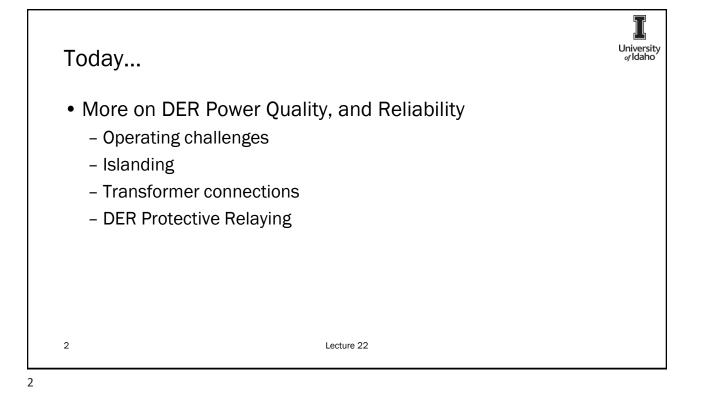
http://www.ece.uidaho.edu/ee/power/ECE528/

Paul Ortmann portmann@uidaho.edu 208-316-1520 (voice)

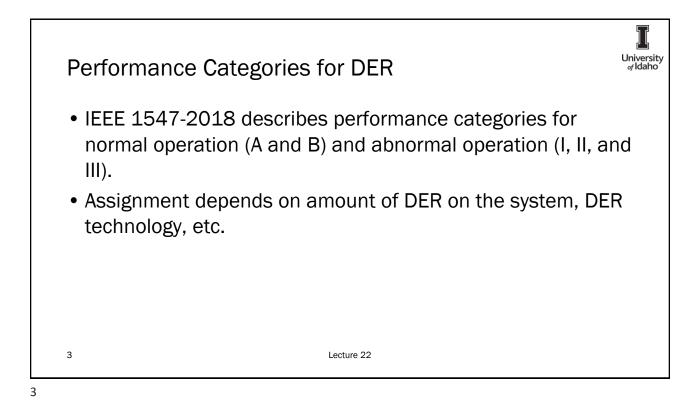
Lecture 22

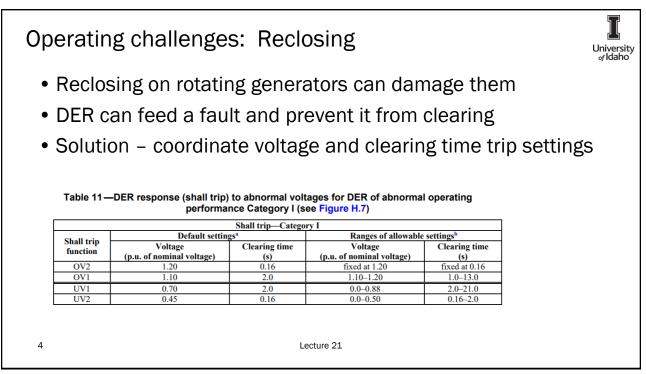
1

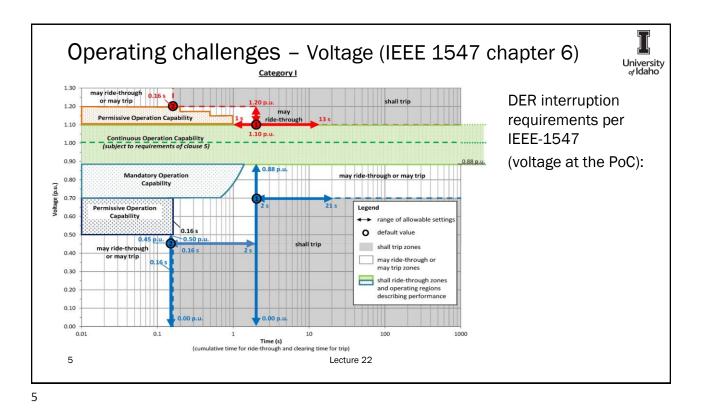
1



1







University PQ issues with DG/DER - Voltage regulation of Idaho Voltage Regulation – previously not allowed, now required per IEEE-1547 "The DER shall provide voltage regulation capability by changes of reactive power." Table 7—Minimum reactive power injection and absorption capability Injection capability as % of Absorption capability as % of Category nameplate apparent power (kVA) nameplate apparent power (kVa) rating rating А 44 25 (at DER rated voltage) В (over the full extent of 44 44 ANSI C84.1 range A) 6 Lecture 22

