





Session 8 – Product Approvals IEC vs. NA





- Acceptable To The Authority Having Jurisdiction
 - Canada - Certified to a CSA Standard (also IECEx standards are acceptable)
 - Europe - Approved By Accredited Testing Agency To CENELEC Standards
 - Now Includes ATEX Directives With  Marking
 - Marked “EEx” 
 - IEC - Approved By Accredited Testing Agency To IECEx Standards



Product Approval



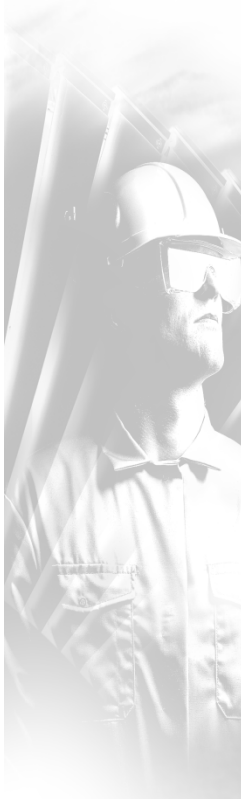
- Approval To IEC Standards
 - IEC Does Not Have Testing (At This Time...) with exception of IECEx
 - Many Countries “Adopt” IEC Standards
 - May Include “National Deviations”
 - Tested To An Adopted Standard & Marked With “Ex”
 - Manufacturers May Declare as “Complying With IEC Standards”
 - This Is not an Approval
 - Some Products Don’t Require Approval
 - May find type-testing or other testing for certain IEC products such as Motor Controls & Switchgear



How Do Product Approvals Compare?



Product Approval Requirements			
 CEC	 NEC	 CENELEC	 IEC
<p>Must Be Tested & Approved To CSA Standard By Accredited Testing Agency</p>	<p>Zone Products Must Be "Listed" to ANSI Std.</p> <p>Division Products Acceptable In Zones</p> <p>UL, FM, CSA</p>	<p>Must Be Tested To EN Std. By Accredited Testing Agency ATEX 7/1/2003</p>	<p>Through Country ACB</p> <p>Little or no country deviation</p>





- Criteria for Evaluating or Testing Products By an Accredited Certification Organization
 - USA
 - ANSI Are The National Standards
 - UL, FM, ISA, MSHA, Coast Guard... Write Standards
 - May Not Be ANSI Standards
 - Canada
 - Canadian Standards Association - CSA
 - Fire Alarms by Underwriters Laboratories Canada Ltd.
 - Internationally
 - CEN, CENELEC, IEC and various Country specific standards

