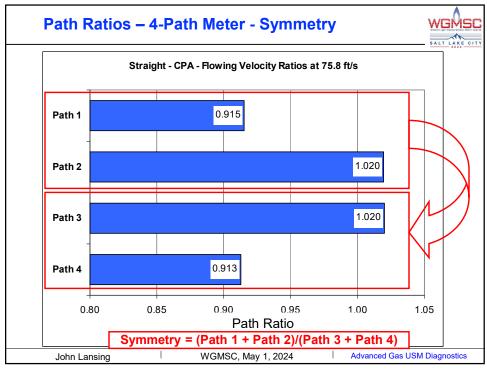
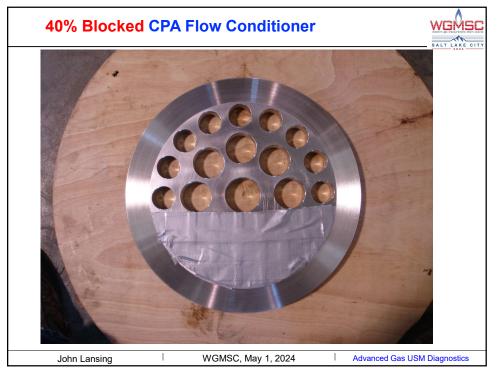
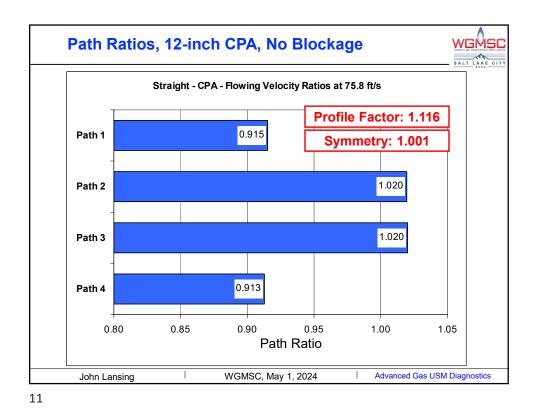
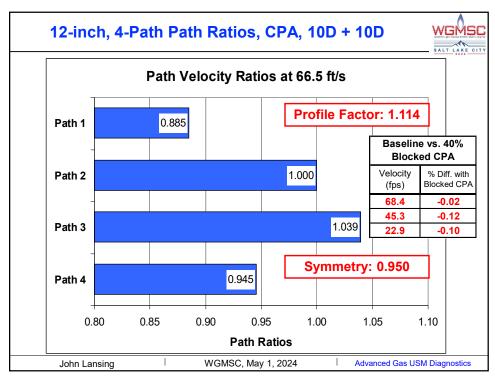


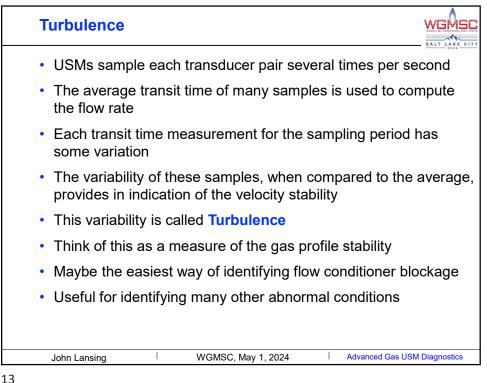
Symmetry Definition
<ul> <li>Symmetry is a summary of the path ratios similar to Profile Factor</li> </ul>
<ul> <li>Definition is defined as (Path 1 + 2) / (Path 3 + 4)</li> </ul>
<ul> <li>If the velocity profile is symmetrical from top to bottom on a Chordal meter, the Symmetry value should be 1.00</li> </ul>
<ul> <li>Distorted profiles will cause the Symmetry value to either be above or below 1.00, depending upon the distortion</li> </ul>
<ul> <li>This additional diagnostic parameter helps verify consistent profile</li> </ul>
<ul> <li>It is possible to have a correct Profile Factor, but have a distorted profile – Symmetry provides a second check</li> </ul>
John Lansing WGMSC, May 1, 2024 Advanced Gas USM Diagnostics

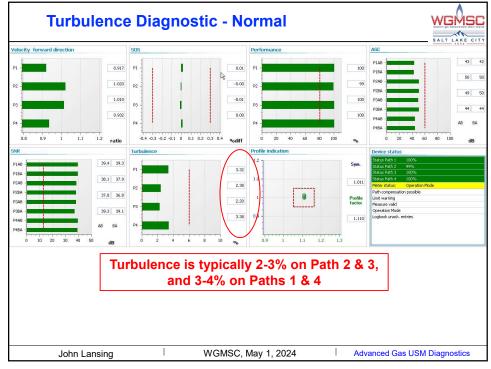


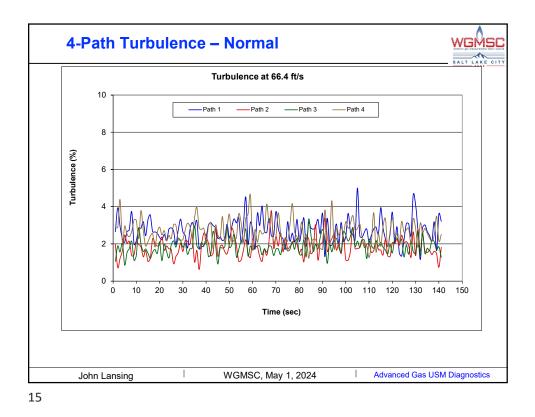




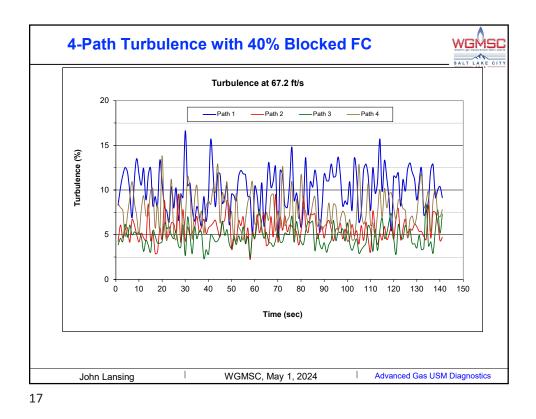


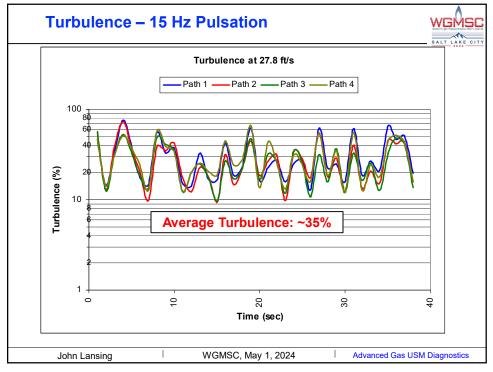


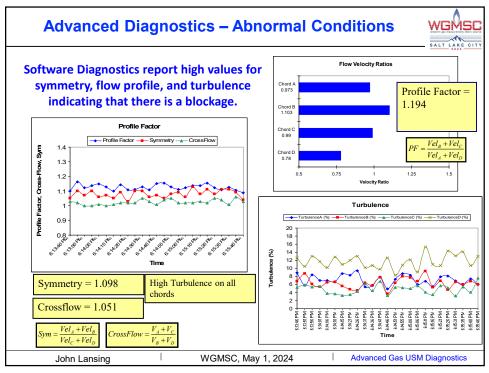


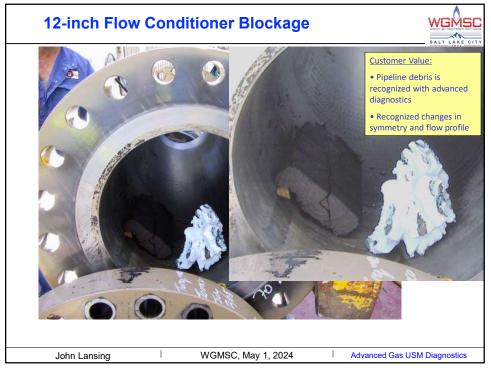


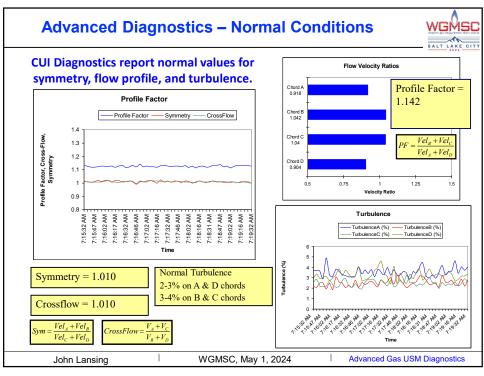


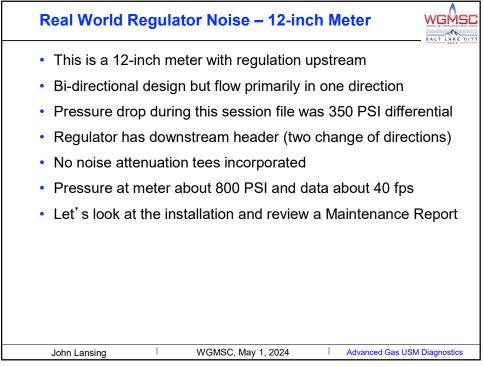


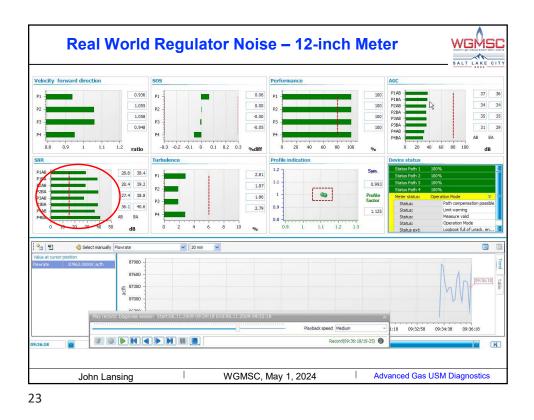












Wet Gas Testing	
<ul> <li>Wet Gas testing has been performed at the CEESI Nunr</li> </ul>	n facility
<ul> <li>4-inch testing done at 3 pressures: 13, 33 &amp; 55 Bar (300 800 psi) [March 2010]</li> </ul>	, 500 &
<ul> <li>GVFs tested included: 100, 99.9, 99.5, 99.0, 98, 97, 96</li> </ul>	& 95%
<ul> <li>All testing included a CPA 50E flow conditioner located a upstream of the USM</li> </ul>	at 10D
<ul> <li>The dual-chamber orifice meter had a 19-tube bundle ar located downstream of the USM</li> </ul>	nd was
John Lansing WGMSC, May 1, 2024 Advanced Gas USM	1 Diagnostics

