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XCEL Series of Turbine Mixers

Bulletin 06-105
11/28/11
Supersedes 01/04/05

Page
01 of 01

Shaft Deflection Trouble-Shooting Guide

| Problem | Cause | Suggested Corrective Action |
|-----------------------------------|---|--|
| Excessive Shaft Deflection | No baffles, center mount | Add baffles or mount mixer off center |
| | Operation of Impellor at or near liquid level | Shut off mixer when liquid level approaches the impellor. Do NOT operate mixer in air. |
| | Coupling Misalignment | Align coupling so shaft is plumb and run out at the coupling does not exceed .001" |
| | Bent Shaft | Straighten shaft to better than .002" run out per inch of length |
| | Mixer operating too close to critical speed | Slow mixer down until vibration stops |
| | Imbalance due to weight distribution | Remove cause of imbalance, such as bent or broken impellor |
| | Support structure is inadequate | Strengthen support structure with cross braces |
| | Loading of process fluids and solids | Protect impellor from high velocity flow rates or heavy solids |