

MIXER MODERNIZATION AND RELIABILITY



Maximize your productivity by proactively identifying aging and at-risk equipment to minimize unplanned downtime. SPX FLOW provides solutions and cost analysis that can be used by maintenance, reliability engineers, plant manager, and various other support positions saving you substantial time and money all at no cost to you.

Following a complimentary on-site inspection. An extensive report will be provided to you detailing more than 30 data points collected for each of your mixers including: vibration, sound, and temperature levels and a full visual inspection.

The goals are to:

- Provide mechanical equipment assessments and identify at-risk equipment
- Improve maintenance lifetime cycles with increased uptime
- Increase meantime between failures
- Decrease maintenance costs and emergency work
- Provide redundancy and spares planning

SPX FLOW MIXING MODERNIZATION & RELIABILITY			
INDIVIDUAL MIXER RESULTS			
MMR		The Mixer Modernization & Reliability (MMR) provides Individual Mixer Results shown in a summary based upon the data collected during the Mini Mixer Operation Evaluation (Mini-MOE) process. Where possible, SPX FLOW has provided estimated cost and savings as well as parts potentially required for modernization.	
MMR ID	1-3	Mixer Tag	M-3
TANK ID	T-3	Serial Number	12XDCFH1234567
Mixer Criticality	Low	Site Location	Jeremy Test
Modernization Summary			
Current Mixer Information:			Mixer Health
Chemineer 4HT, 15HP, 68RPM, Open Tank with Stand			6
Torque: 13,903.00	Shaft Size: 3.5 inches		
Modernization Information			Recommended Action
PMSL 3855M-S, 15HP, 68 Nominal RPM, Open Tank with Stand			6
Service Factor: 2.47	PMSL Shaft Size: 3.50 inches		
Lightnin 74, 15HP, 68 Nominal RPM, Open Tank with Stand			
Service Factor: 2.05	LTN Shaft Size: 2.5-3.5 inches		
Why the Recommended Action:			
Mixer is Not Critical and in Very Poor Health.			
Budgeted Modernization Cost:	Estimated Cost of Downtime Per Day:	Estimated Cost of Delay (5 Days):	Estimated Cost of Planned Downtime:
\$27,000	\$87,000	\$435,000	\$21,750
Percent of Investment vs Risk:			11.21%
Potential Savings of Modernization vs. Cost of Delay:			\$440,250
Mixer Health Comments:		Modernization Parts:	
Very high vibration levels at low speed end of gearbox. Mixer mounting bolts are loose.		PMSL 3855M-S Gearbox or Lightnin 74 Gearbox	
		Output Shaft	
		Drive Stand	
<small>INTERPRETATION OF DATA: Where applicable, SPX FLOW personnel shall advise and consult with Customer concerning the data generated or obtained in connection herewith; however, Customer accepts total responsibility for the interpretation of such data and for judging what actions are required as the result of the data generated or any analysis or interpretation thereof.</small>			
		 STRICTLY CONFIDENTIAL	

The Mixer Modernization and Reliability (MMR) report is a comprehensive evaluation of your agitating equipment and their associated maintenance and reliability concerns. It proactively identifies and prioritizes at-risk mixing equipment while offering solutions that give you a planned road map to minimizing unplanned downtime so you can more efficiently use your maintenance and reliability assets

Each MMR consists of the following:

1. Audit
2. Visual inspections
3. Mixer performance evaluation
4. Budgetary cost for modernization
5. ROI calculations to support spares planning
6. Recommendations from mixing experts for all of your mixing equipment regardless of manufacturer.



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