DFMEA ENG-FM1, revision A

Released Oct 25, 2026, 4:57 PM

Frozen Oct 25, 2026, 4:57 PM by Priya Nair

Title	Shaft seal and housing
Owner	Priya Nair
Team	Grace Kim, Tom Reyes, Dan Okafor
Answers to	Gate 3
Scope	The shaft seal, its groove and the housing around it, at 400 bar and from -30 C to 120 C.
Approved by	Maria Chen

#	ITEM	FUNCTION	FAILURE MODE	EFFECT	S	CAUSE	PREVENTION CONTROLS	O	DETECTION CONTROLS	D	SPECIAL CHAR.	RISK	ACTIONS	AFTER
1	Shaft seal	Keep the fluid in at 400 bar	**Seal lip leaks at a cold start**	Fluid on the machine; the pump has to be stopped	8	The lip compound stiffens below -10 C	Supplier datasheet only	6	None before the DV test	7		High	ENG-23 · Grace Kim · done	S8 O2 D3 Low