Review record: HX-400 preliminary design review

ENG-R4 · Design review (Preliminary Design Review) · ENG · HX-400 Hydraulic Pump · Gate 3

HELD	Oct 25, 2026	**CHAIR**	Maria Chen
OUTCOME	Approved with actions: “Approved for detail design. The seal supplier is chosen (ENG-F12) and the nameplate added to the drawing (ENG-F13) before the drawings are released.”	**DECIDED**	Maria Chen, Oct 25, 2026, 4:58 PM

Who was there

TEAM	PERSON
Engineering	Dan Okafor
Manufacturing	Sam Patel
Quality	Grace Kim

REQUIRED TEAM	COVERED BY
Engineering	Dan Okafor
Quality	Grace Kim
Manufacturing	Sam Patel

Package

WHAT WAS LOOKED AT	SINCE
ENG-05 · FEA structural analysis, v1	As reviewed
ENG-FM1 · Shaft seal and housing, revision A	As reviewed

Formal Review Record

ENG-R4 · ENG · HX-400 Hydraulic Pump · Gate 3 · held Oct 25, 2026

Checklist

#	QUESTION	ANSWER	NOTE	FINDING
1	Requirements are complete and agreed	Yes		
2	The concept meets every requirement, or the gaps are named	Yes		
3	Key risks are in the DFMEA	Yes		
4	Make-or-buy decisions are made for the main parts	No	Make or buy is still open for the shaft seal: two suppliers quoted, neither chosen.	ENG-F12
5	Cost estimate is within target	Yes		

Findings

FINDING	SEVERITY	WHAT	RAISED BY	STATUS	WORK
ENG-F12	Major	Checklist: "Make-or-buy decisions are made for the main parts" No. Make or buy is still open for the shaft seal: two suppliers quoted, neither chosen.	Maria Chen	new	
ENG-F13	Minor	The nameplate position is not on the housing drawing.	Maria Chen	new	