

Team Name: Dresser Rand Test Bench

Team Number: P17453

Identifying & Selecting Problem **PSP Step 1**

What is “the problem” you are trying to solve?

- Leakage in the O-Rings
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Analyzing the Problem **PSP Step 2**

What are the possible causes of “the problem”.

- Poorly cut grooves
- Incorrectly designed grooves
- Defective O-Rings
- Wrongly selected O-Rings
- Inadequate clamping force
- Incorrect assembly

Check out the above possible causes and ask “why”.

Are there other possible causes to get to the “root cause”?

- Wrong O-Rings were ordered
- Wrong O-Rings were shipped and delivered
- Wrong O-Rings were chosen for the application

What is the “root cause”

- Wrong O-Rings were chosen

Generating Potential Solutions

PSP Step 3

Brainstorm Possible Solutions

- RTV/Hot Glue sealant applied to O-Rings to improve sealing
- Re-analysis of O-Ring selection and ordering of new O-Rings
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Selecting & Planning Solution

PSP Step 4

Show your guide how you selected & plan to implement the solution.

Implementing the Solution

PSP Step 5

Show your guide how you implemented your solution.

Evaluating the Solution

PSP Step 6

Show your guide how you evaluated your solution.