



ROXTEC Resilient Mechanical Bulkhead Pipe Transits for Navy Applications

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- Objective
- Current Process
- Proposed Process
- Execution Plan
- Deliverables



- Reduce cost of piping penetrations
- Qualify commercially available resilient mechanical bulkhead pipe transits for US Navy applications
- Quantify the benefits for their use

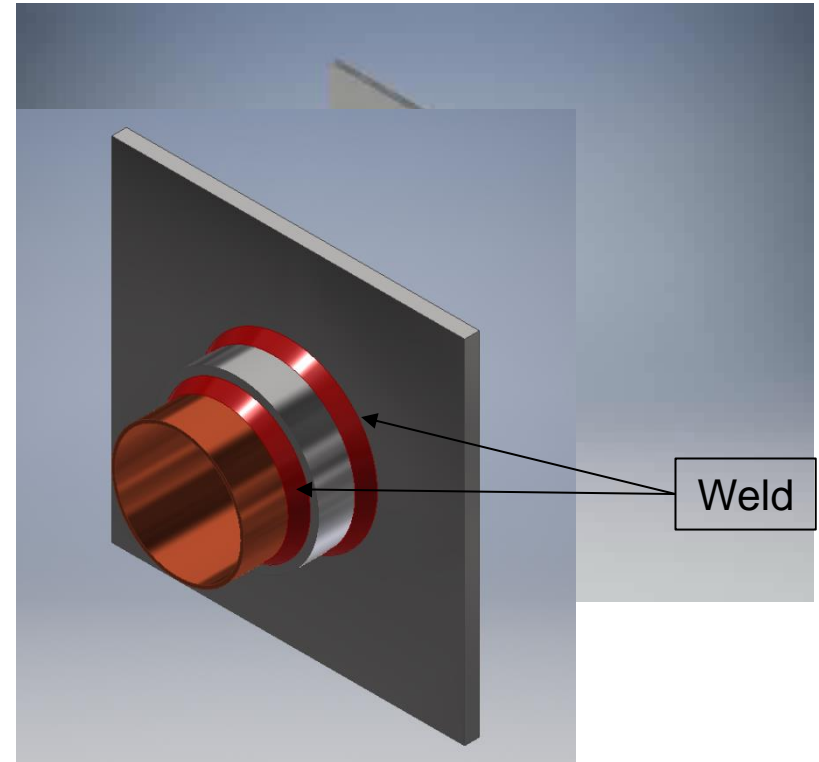


Advantages:

- Proven effectiveness

Disadvantages:

- Requires 2 welds
- Requires bi-metallic welds
- Shipboard welds result in paint touch-up

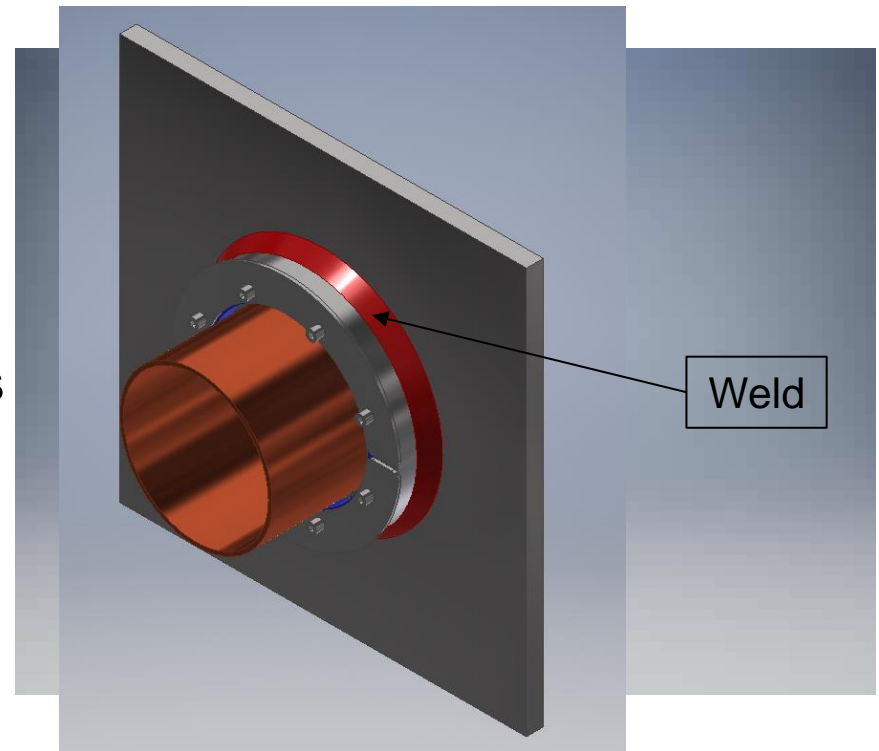


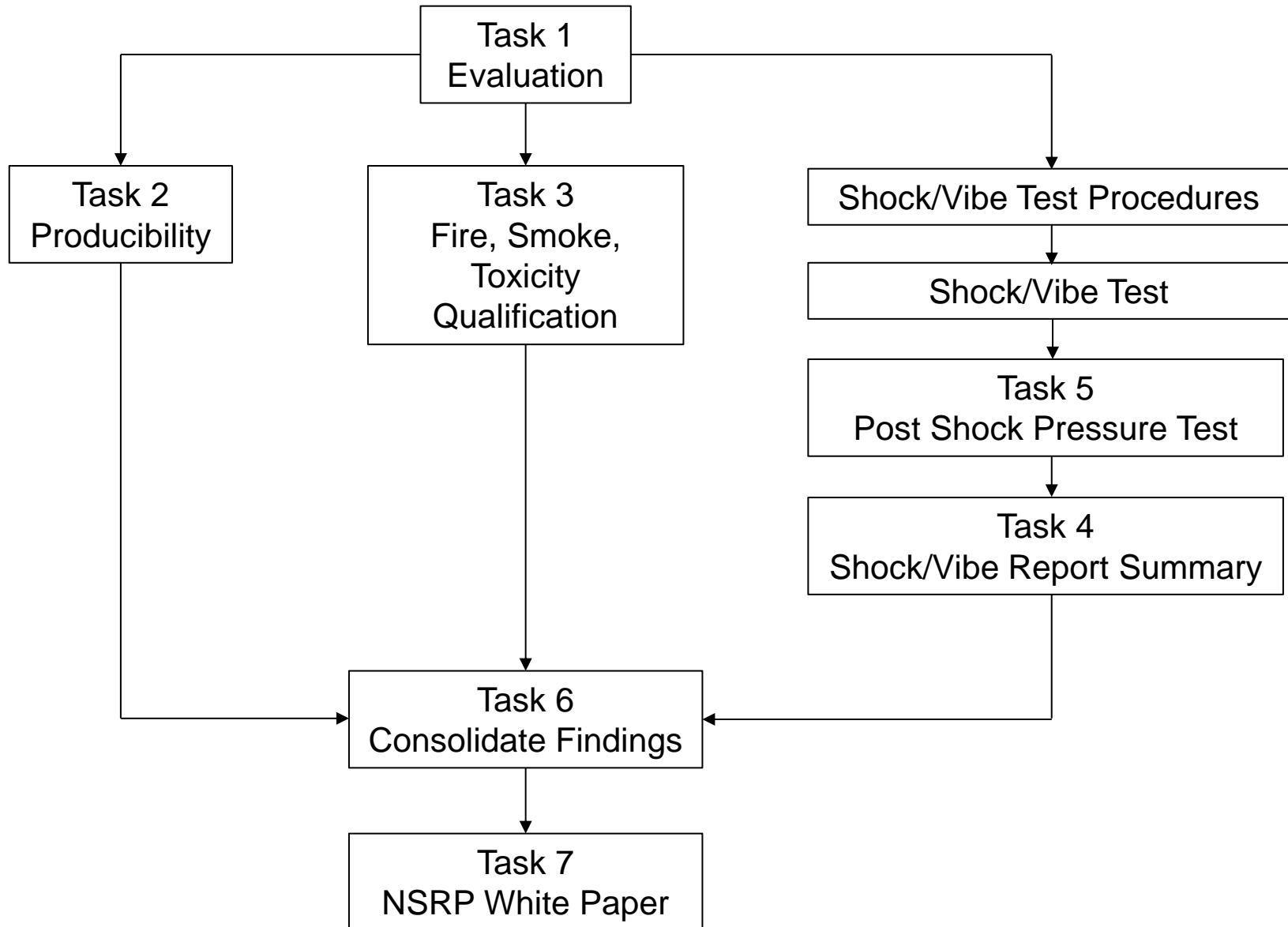
Advantages:

- Requires 1 welds
- Does not require bi-metallic welding
- Welding completed in shops rather than shipboard
- Reduce heat transfer between pipes and structure
- Reduce noise/vibration

Disadvantages:

- Not yet proven effective
- Limited life





- Final Report
 - Description of options
 - Evaluation method for down-selection
 - Shock and vibration test reports
 - Fire, smoke, and toxicity extension rationale
 - Producibility demonstration results
 - Recommendations for uses





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