



Student Name Sarah Kathleen Bull Student ID \*\*\*\*\*

Doctoral  Degree in Chemical Engineering

Thesis Title:

Atomic Layer Deposition of Environmental Barrier Coatings for Preventing Hydrogen Ingress

Have you performed research involving human subjects which requires approval from the Institutional Review Board (IRB)?  Yes  No

IRB Protocol Number \_\_\_\_\_

Have you used live animals, animal tissue, or observational animal work which requires approval from the Institutional Animal Care and Use Committee (IACUC)?  Yes  No

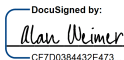
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Attach the final copy of thesis/dissertation for committee review. While formatting changes may be requested by the Graduate School, the content of the attached document should be final.



**Approvals:**

Committee Chair Name Alan W. Weimer

Signature  \_\_\_\_\_ Date Signed 4/13/2021

Committee Member Name Charles B. Musgrave

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The final copy of this thesis has been examined by the signatories, and we find that both the content and the form meet acceptable presentation standards of scholarly work in the above-mentioned discipline.