Development of Multi-Axial Fatigue Retrofits for Waterway Lock Gate Components Dataset

Dataset available at: https://doi.org/10.5281/zenodo.4710605

(This dataset supports report Development of Multi-Axial Fatigue Retrofits for Waterway Lock Gate Components)

This U.S. Department of Transportation-funded dataset is preserved in the Zenodo Repository (https://zenodo.org/), and is available at https://doi.org/10.5281/zenodo.4710605

The related final report **Development of Multi-Axial Fatigue Retrofits for Waterway Lock Gate Components**, is available from the National Transportation Library's Digital Repository at https://rosap.ntl.bts.gov/view/dot/59879.

Metadata from the Zenodo Repository record:

<u>Title:</u> Development of Multi-Axial Fatigue Retrofits for Waterway Lock Gate Components Author: Prinz, Gary S; Verkamp, Logan

<u>Description:</u> Included is a project final report and the associated data files from an analytical and experimental investigation into multi-axial fatigue crack mitigation in critical lock gate components.

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<u>Keywords:</u> Lock gate, Pintle fatigue, FEA, Experimental Testing <u>Communities:</u> Maritime Transportation Research and Education Center License (for files): Creative Commons Attribution 4.0 International

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Dataset description:

This dataset contains 2 file collections and 1 .pdf file, described below.

Development of Multi-Axial Fatigue Retrofits for Waterway Lock (Research Files).zip: This file collection contains 181 files, organized in multiple folders.

FEA Simulations.zip:

- Tube Model.zip
 - o This file collection contains 32 files.
- Plate Model.zip
 - o This file collection contains 210 files.
- Pintle Location Model.zip
 - o This file collections contains 66 files.

Final Report MarTREC V2.pdf

The .pdf file format is an Adobe Acrobat Portable Document Format (PDF) file and can be opened with the Adobe Acrobat software.

National Transportation Library (NTL) Curation Note:

As this dataset is preserved in a repository outside U.S. DOT control, as allowed by the U.S. DOT's Public Access Plan (https://ntl.bts.gov/public-access) Section 7.4.2 Data, the NTL staff has performed *NO* additional curation actions on this dataset. NTL staff last accessed this dataset at https://doi.org/10.5281/zenodo.4710605 on 2022-05-11. If, in the future, you have trouble accessing this dataset at the host repository, please email NTLDataCurator@dot.gov describing your problem. NTL staff will do its best to assist you at that time.