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Process for Updated PIPE MATERIALS Data

"Section IV - Pipe Materials.xlsx"

Note: All python commands are run from the edb root directory

Prep the Data

- 1. Download the new Pipe Materials spreadsheet to your Downloads folder.
- 2. Rename the new file to "Section IV Pipe Materials.xlsx".
- 3. Save the "Pipe Data" tab from the spreadsheet as a separate CSV file (UTF8-encoded) as: "Section IV Pipe-Tube Data.csv"
- 4. Replace the existing files in the edl/kb/friction-loss folder with these 2 files.
- 5. Open the edl/kb/friction-loss/Section IV Pipe-Tube Data.csv file.
 - Add a new row under the header row (which is/should be at row 4)
 - On that new row, put the word "include" in every column that you want displayed on the tables
 in Section IV on the EDL website.
 - Make sure to always "include" the **Group Name**, **Sub-Division and Sub-Division Name**.

Build the tables and json file for the Friction Calculator

- 1. Run the friction-loss build file:
 - o python kb/friction-loss/build-full.py
 - This will generate the data tables in source/04_piping-materials-IV/table-data
 - The file names are auto-created based on the Group Name and then the Sub-Division Name:

```
<Group Name Initials>_<First 4 letters of each of the words in the Sub-
Division Name followed by '-'>.csv
```

■ Ex: **Group:** Steel Pipe

Sub-Division Name: Welded and Seamless Wrought Steel Pipe Filename generated: sp weld-and-seam-wrou-stee-pipe.csv

- These tables are referenced in the *.md files in source/04_piping-materials-IV
- This build will also generate the friction-loss-materials-full.json file in the generate/static folder.
 - This file is used by the friction calculator implemented in the source/javascript/calculators.js file.

Process for Updated FLANGE Data

"Section IV - Flange Data.xlsx"

Prep the Data

- 1. Download the new Flange Data spreadsheet to your Downloads folder.
- 2. Rename the new file to "Section IV Flange Data.xlsx".
- 3. Replace the existing file in the source/04_piping-materials-IV/table-data folder.

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- 4. For each tab in the spreadsheet:
 - There exists a CSV file for each tab in the spreadsheet in this same folder.
 - Copy JUST the data (US or Metric) and replace the data in the existing CSV file.
 - There is a row under the *header* row called *tags*. This row is for tagging the columns you want to who on the table.
 - If you leave a column blank or tag it 'All', it WILL be included.
 - If you tag the column 'None', it will NOT be included
 - For the files with multiple types of flanges, the appropriate "Section IV Flange Data.xlsx" tab/sheet will have a row of tags that can be copy/pasted into the appropriate CSV file in the tags row.
 - Save the file.

Build the tables

- 1. The tables will automatically be built in the output.py file in the table_data() function when you build the system:
 - o python serve.py

Using TAGS for tables

1. Here is an example of using tags to select specific columns from a table

```
=|=
title: Threaded Steel Pipe Flanges per ASME B16.5 (Class 150, 300)
data-us: flange-16.5-150-300-us.csv
data-metric: flange-16.5-150-300-metric.csv
column_tags: Th
=|=
```

In this example, the columns that will be included will be the ones tagged with 'Th' on the *tags* row in the CSV files. The CSV file(s) can be used for multiple flanges.