Purpose of project
The purpose of this project is to locate all active and inactive lifting devices and verify their compliance with the current versions of the applicable codes such as ASME B30.20 and ASME BTH-1.

Engineering Note
An Engineering note is a documentation prepared by a qualified person that serves to provide the user with the design and fabrication of a lifting device. The note includes Design calculations, Load tests, certifications, manufacturer information, etc.

Methods
To locate active lifting devices, the principle investigator interfaced with multiple building/floor managers throughout the department and entered the data collected into an Excel spreadsheet. The investigator also created a Teamcenter Engineering Note item for each lifting device. Finally, as a case study, the investigator took measurements of a sample device to perform calculations from the Machinery’s Handbook and ASME BTH-1 to establish code compliance.

Results and Conclusions
The data revealed that while newer actively-used lifting devices in APS-TD are compliant with the relevant codes, certain older devices may require updated analysis, markings, etc. to comply with the most recent revisions to those codes.

Future Work
With up-to-date knowledge of active lifting fixtures compiled, the directorate can better target its code compliance efforts.

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