

Code of Record

The Code of Record for decades at Jefferson Lab has been the Commonwealth of Virginia Building and Remodeling Code. The DOE requires the use of DOE Standard, DOE-STD-1020-2016 and DOE O 420.1C for all design and construction activities. DOE-STD-1020-2016, 2.2.1 and 2.2.2 provides criteria and guidance for meeting the Natural Phenomena Hazard (NPH) requirements and endorses the use of the International Building Code (IBC) 2015, Structural Design Chapter 16 and Table 1604.5 Footnote "b". DOE O 420.1C requires contractors, for design and construction activities, to identify applicable industry codes and standards, including the International Building Code (IBC), and the applicable DOE requirements and technical standards.

The DOE Order includes a provision for state, regional, and local building codes to be used in lieu of the IBC if approved by the DOE Head of Field Element or designee. This process is initiated by contractor submission of documentation providing a basis that demonstrates that implementation of the substituted code for the specific application will meet or exceed the level of protection that would have been provided by the IBC. We have been working with the Site Office and DOE Service Center concerning the applicable documentation for an equivalency. The expectation is to update the equivalency documentation each time codes are updated (every three years). In checking I have found other Federal agencies in our area use the IBC as their Code of Record.

Based on our discussion with DOE and practice by local Federal agencies effective 3 April 2023 Jefferson Lab will use International Building Code (IBC 2021), International Existing Building Code (IEBC) and other referenced codes for the construction and modification of our facilities. These codes shall not supersede the requirements of DOE O 420.1C.

The Jefferson Lab Facilities Design Criteria (FDC) is being updated to reflect the above change as well as update the version of related codes to be used in our work. Our subcontracts will be updated to reference the updated FDC or the specific updated code reference for work performed in house or subcontracted.

Code references in the future shall be updated to the current code version one year after it is issued by the governing body. Updates will be announced using updates to the Facility Design Criteria. Reference codes within the IBC and IEBC shall be the current code version one year after it is issued by the governing body.

Designs completed under a prior version of a code but not executed for construction or modification under a Purchase Order within one year after the effective of adoption of a new version of a code shall be reviewed and updated as necessary under the latest code version. The ARC Renovation project will be executed using the Code under which it was designed (i.e., the Virginia State Building code).

The above defined practice will help us to continue to deliver a safe and effective product.

Please let me or Brian Hanlon know if there are questions.


Rusty Sprouse
Director Facilities Management & Logistics