APPENDIX C

CODES AND STANDARDS

A. GENERAL REQUIREMENTS

1. Unless specifically directed by the Owner in writing, the Project Architect/Engineer shall design all UT System Capital Improvement Program (CIP) projects (Projects) to comply with the current UT System adopted editions of the federal, state and UT System Board of Regents (BOR) mandated codes and standards indicated within this appendix (Appendix C). To confirm a minimal standard of compliance, certain baseline requirements are established for all Projects.

2. The State Fire Marshal's Office (SFMO) is the code Authority Having Jurisdiction (AHJ) for all issues pertaining to NFPA 101 Life Safety Codes and NFPA 1 Fire Code. Each institution's Fire Marshal, or the person they so designate to represent them, shall be included in relevant NFPA code discussions and resolutions of conflict.

3. The Owner's Designated Representative (ODR) is the AHJ and/or the party responsible for coordination with other governing agencies having jurisdiction, as well as for all adopted building-related codes. The UT System adoption of NFPA 101 Life Safety Code and NFPA 1 Fire Code will continue to be coordinated with the SFMO. When conflicts or other relevant needs arise, the ODR will facilitate resolution and confirm interpretations after a thorough and joint review with the institution's designated Fire Marshal.

   Refer to the UT System Risk Mitigation & Monitoring Plan for Major Capital Projects (RMMP), UT_RMMP, for confirmation of additional authorities having jurisdiction and for additional clarification on state and federal regulatory requirements.

4. The Project Architect/Engineer shall prepare a written codes and standards analysis, "Building Code Analysis," for each project for review by ODR. This analysis shall provide a side-by-side comparison of the requirements of the codes and standards listed in Appendix C for each code issue and an indication of which code requirement is being applied to the project (see sample analysis Exhibit 2). In the absence of a careful and thorough discussion by the design team and the ODR of a specific conflict between the codes, the default is to the more restrictive or more protective code.

These code discussions are project-specific and on a point-by-point basis within the codes. The final approved Building Code Analysis shall be placed in the project construction document drawings for future reference by the Owner. See Appendix L for submittal requirements.

5. If deemed necessary for the local authority to review any aspect of the project, such review shall be arranged to allow an ODR or institutional representative to attend with the Project Architect/Engineer.

6. In the event of the need for interpretation among the codes and standards, the Project Architect/Engineer shall inform ODR of the need for an interpretation and ODR will establish the requirements for compliance.

7. ODR requires the Project Architect/Engineer to comply with certain provisions of the local fire department that provides fire protection services for the institution. These provisions may include locations and dimensions for firefighting access, including fire lanes; locations and specifications for standpipes, fire hose cabinets, fire control room, and fire hose connections; elevator requirements; and other similar matters.

8. The Project Architect/Engineer shall be required to provide an affirmation statement that the project is designed in compliance with applicable codes and standards. The following statement shall be located on the drawing index page or adjacent to the project building code summary:

   "Life Safety Code Compliance: The Project Architect/Engineer acknowledges that construction projects for the University of Texas System must, at a minimum, be designed in accordance with the requirements of National Fire Protection Association (NFPA) 101 Life Safety Code and NFPA 1 Fire Code as currently adopted by the State Fire Marshal, Texas Administrative Code 34.303. Therefore, the Project Architect/Engineer affirms that, to the best of his/her professional judgment, knowledge, and belief, the design of this project satisfies the requirements of NFPA 101 Life Safety Code and NFPA 1 Fire Code as well as any other codes or standards made applicable to the project by the professional services agreement."

B. <u>DESIGN BASIS</u>

1. National Fire Protection Association National Fire Code NFPA 101 - Life Safety Codes (LSC), edition required as follows:

2021 Edition effective September 1, 2023
2024 Edition effective September 1, 2026.

2. National Fire Protection Association National Fire Code NFPA 1 Fire Code, edition required as follows:

   2021 Edition effective September 1, 2023
   2024 Edition effective September 1, 2026.

   NOTE: The NFPA 1 Fire Code includes provisions that allow state fire marshal inspectors to use their experience and judgment to accept reasonable accommodations through equivalencies, alternatives, and modifications. Any proposed variances must be coordinated with and approved by the State Fire Marshal's office.

   See Exhibit 1 for a link to the Texas Secretary of State - Texas Register site for details and exceptions adopted by the SFMO for NFPA 1.

3. International Building Code 2021 Edition, effective September 1, 2023.
   International Building Code 2024 Edition, effective September 1, 2026.

C. ARCHITECTURAL DESIGN

1. NFPA 45 Edition Standard on Fire Protection for Laboratories Using Chemicals as applicable.

2. Texas Department of Licensing and Regulation (TDLR)

   a. Elimination of Architectural Barriers Texas Government Code Chapter 469, Texas Administrative Code 16 TAC part 4 chapter 68 and the 2012 Texas Accessibility Standards (TAS)

   b. Elevators and Escalators, Health & Safety Code chapter 754 and 16TAC § 74

      (See 16TAC § 74.100 for effective dates of ASME standards)

      (See 754.014(k) for date of installation definition)

   c. Boilers, Health & Safety Code chapter 755 and 16TAC § 65

d. Americans with Disabilities Act, 2010 Standards, including both the Title II regulations at 28 CFR 35.151; and the 2004 ADAAG at 36 CFR part 1191, appendices B and D. In the few places where requirements between the two differ, the requirements of 28 CFR 35.151 prevail.

D. CIVIL/STRUCTURAL DESIGN

1. ACI – 318 current edition, Building Code Requirements for Structural Concrete

2. AISC current edition, for Steel Construction Manual

3. Texas Department of Insurance Windstorm Inspection Program

4. FEMA 100-year flood plain

E. MECHANICAL & PLUMBING DESIGN

1. International Mechanical Code 2021 Edition, effective September 1, 2023. International Mechanical Code 2024 Edition, effective September 1, 2026.

2. International Plumbing Code 2021 Edition, effective September 1, 2023. International Plumbing Code 2024 Edition, effective September 1, 2026.

3. International Fuel Gas Code 2021 Edition, effective September 1, 2023. International Fuel Gas Code 2024 Edition, effective September 1, 2026.

4. Guideline Specifications for Divisions 21, 22 and 23.

F. ELECTRICAL DESIGN

Based upon the February 2017 Memorandum of Understanding (MOU) between the State Fire Marshal's Office (SFMO), Texas Department of Licensing and Regulation (TDLR), and U.T. System (UTS), the effective date of compliance with the latest adopted edition of NFPA 70 National Electrical Code (NEC) was established such that every three (3) years in September when the latest NEC is published and released by NFPA, TDLR announces on its website that the new version of the NEC will become effective in one year. The SFMO will allow the use of, and UTS will require compliance with, the latest edition of the NEC as adopted by the TDLR based upon the start of electrical work. Currently, the following effective dates are in effect:

1. National Electrical Code 2020 Edition for electrical construction beginning on or after September 1, 2020, and before September 1, 2023.

2. National Electrical Code 2023 Edition for electrical construction beginning on or after September 1, 2023.

3. National Electrical Code 2026 Edition for electrical construction beginning on or after September 1, 2026.

4. Ongoing adoption will occur on a three-year cycle as indicated above.

   NOTE: TDLR defines the start of electrical work as the day an electrician begins installing electrical materials or equipment within the building structure. Start of work includes the installation of temporary power for construction.

5. Guideline Specifications for Divisions 26, 28 and 33

G. ENERGY & WATER CONSERVATION DESIGN

1. Energy Conservation Design Standard for New State Buildings (including major renovation projects), current edition, State Comptroller's Office, Government Code sec. 447.004 and 34 TAC § 19.32

2. ASHRAE / IESNA 90.1 2019 Edition (effective September 1, 2023) or International Energy Conservation Code (IECC) 2021 Edition (effective September 1, 2023)

3. ASHRAE / IESNA 90.1 2022 Edition (effective September 1, 2026) or International Energy Conservation Code (IECC) 2024 Edition (effective September 1, 2026)

4. SECO's Water Conservation Design Standards for State Buildings and Institutions of Higher Education Facilities dated April 2020 (effective January 1, 2021)

H. CODE COMPLIANCE CONFIRMATION REVIEWS

1. An independent project design "Code Compliance Confirmation Review" will be performed, documented, and submitted to the Owner at DD and 75% CD submission to ensure compliance with the following codes as they apply to a specific project. The Owner's Project Manager will direct the A/E to obtain

this code confirmation review or will direct the Owner's Code Consultant to perform this code confirmation review. (Non-inclusive code review list, editions as listed in sections above):

- International Building Code (IBC)
- International Fuel Gas Code (IFGC)
- International Mechanical Code (IMC)
- International Plumbing Code (IPC)
- NFPA 70 National Electrical Code (NEC)
- NFPA 101 Life Safety Code
- NFPA 1 Fire Code
- NFPA Codes as applicable, with emphasis on the following:
    - NFPA 101 Referenced Required Codes
    - NFPA 1 Referenced Required Codes
    - NFPA 12A
    - NFPA 20
    - NFPA 22
    - NFPA 54 As adopted by TX Railroad Commission
    - NFPA 58 As adopted by TX Railroad Commission
    - NFPA 70 (NEC)
    - NFPA 92
    - NFPA 204
    - NFPA 2001
- FEMA 100-year flood plain verification

- Texas Department of Insurance (TDI) First Tier Coastal Counties wind load criteria

2. This Code Compliance Confirmation Review does not relieve the A/E firm from complying with the approved codes and standards for the project. See Exhibit 3 for sample code review template.

EXHIBIT 1

Texas Secretary of State

Texas Register for June 27, 2025, Adopted Rules Regarding

Title 28. Insurance Adopted Section
Part 1. Texas Department of Insurance
Chapter 34. State Fire Marshal

https://texas-sos.appianportalsgov.com/rules-and-meetings?chapter=34&interface=VIEW_TAC&part=1&title=28

EXHIBIT 2
BUILDING CODE ANALYSIS [TEMPLATE]

Project Name:
Institution:
Project No.

Code/Standards Analysis
Date:
Project Phase:

Applicable Codes (actual edition dependent upon date of design contract)

1. NFPA 101 Life Safety –2024 Edition
2. NFPA 1 Fire Code –2024 Edition
3. International Building Code – 2024 Edition
4. Texas Accessibility Standard – 2012 Edition
5. etc.

Note: The code requirements selected as the basis for design are bolded.

Code Issue	NFPA 101	IBC
Occupancy Classification		
1. Offices and college classrooms with less than 50 occupants	Business 6.1.2.2	Group B 304
Construction Classification		
1. Main Building	Not addressed	Type IIA 403.3.1
Stair Pressurization	Not required	1005.3.2.5
Distance between exits	250 ft. If sprinkled	250 ft. If sprinkled
Etc.		

EXHIBIT 3
CODE COMPLIANCE CONFIRMATION REVIEW [TEMPLATE]

[Date]

[Project Manager]
The University of Texas System
Office of Capital Projects
210 W. 7th St.
Austin, TX 78701

Reference: Review Comments on [100%DD or 75% CD]
[Project name]
[Institution]
UTS CIP Project No. XXX-XXX

Dear [Project Manager]:

[Code Consulting Firm (CCF)] has completed its Code Compliance Confirmation review and has prepared review comments on the documents for the [DD or 75% Construction Documents] package for the referenced project.

In performing this current service, [CCF] reviewed the following documents, furnished by A/E.

- DD or 75% Construction Documents Drawings dated [month dd, yyyy].
- DD or 75% Construction Documents Project Manual, Architectural Volume I Divisions 1-14, dated [month dd, yyyy].
- DD or 75% Construction Documents Project Manual, M.E.P. Volume II Divisions 21 - 33, dated [month dd, yyyy].

The principal codes (actual edition dependent upon date of design contract) used in this review are as follows:

- International Building Code, 2024 Edition (IBC)
- NFPA 101, *Life Safety Code*, 2024 Edition (LSC)
- NFPA 1, *Fire Code,* 2024 Edition

Other applicable codes, standards, and regulations are listed in the Project Data shown on the Building Code Analysis Drawing 1.1 and in the Project Information Manual.

Additionally, FEMA 100-year flood plain verification and TDI First Tier Coastal County wind load criteria were reviewed where applicable.

Description of Project

The [Project] consists of …

Note: The following major headings in this Code Compliance Confirmation Review Template are for reference only to demonstrate process.

Building Code Issues
[Drawing 5.1, Drawing 10.21, Drawing 11.41 indicates there are accessible dwelling units. There is no table that indicates the discrete Apartment ID and Building ID for each accessible dwelling unit so that a user of the plans can see in one place the summary of accessible units.]

Requirements for Hazardous Materials and Laboratories
Insert comments, as necessary.

Means of Exit Access
Insert comments, as necessary.

Emergency and Standby Power
Insert comments, as necessary.

Fire Water Supply
Insert comments, as necessary.

FEMA 100-year Flood Plain
Insert comments, as necessary.

TDI Windstorm Inspection Program
Insert comments, as necessary.

Other Major Code Headings as Necessary
Insert comments, as necessary.

Summary

Compliance with the comments stated in this letter does not relieve the A/E from complying with the Owners Design Guidelines, Owner's insurance/underwriting requirements, applicable NFPA Standards and State requirements.

Sincerely,

Project Manager
Texas License No. xxxxx

cc: UT System Office of Risk Management
OCP Assistant Vice Chancellor
OCP Associate Director, Engineering

REVISION LOG

Appendix C

Rev. Date	Remarks
3/1/06	Adopt use of Master Format for specs. (change Div 15 & 16 to Div 1-33)
10/1/06	Adopt 2006 NFPA 101 LSC and 2006 IBC
1/1/09	Add Revision Log
	Adopt ASHRAE 90.1 – 2007 edition effective 1/1/09 per SECO
	Add effective date language to TDLR Elevator requirements
	Add language to use current edition of ACI 318 & AISC
10/12/09	Adopt 2009 NFPA 101 LSC and 2009 IBC effective 10-15-09
10/1/10	Changed more stringent to more restrictive or more protective, added 2010 ADA Standard effective date
3/1/11	Updated International Energy Conservation Code Edition to 2009 effective 4/1/11
9/1/11	Adopt International Energy Conservation Code 2009 Edition effective 6/1/11, adopt ASHRAE 90.1 – 2010 edition effective 9-1-11, adopt Water Efficiency Standard for State Buildings and Institutions of Higher Edu. effective 9/1/11
3/1/12	Adopt 2012 TAS effective 3/15/12
11/1/12	Adopt 2012 NFPA 101 LSC and 2012 IBC effective 10-19-12
7/13/15	Adopt 2012 NFPA 1 Fire Code effective 7-6-15
6/3/16	Adopt 2015 NFPA 101 LSC and 2015 IBC, IMC, IPC, IFGC, IECC effective 5-1-16 Adopt ASHRAE 90.1 – 2013 edition and Water Conservation Design Standard effective 6-1-16
8/4/16	Add Adopt 2015 IBC effective 5-1-16 omitted from text B3 on 6/3/16
7/20/17	Adopt 2015 NFPA 1 Fire Code effective 2-1-17
7/20/17	Adopt 2017 NEC effective 9.1.17 and SFMO/TDLR 3-yr NEC update process
7/20/17	Clarify addition of IECC 2015 for energy code compliance
4/17/18	Clarify OCP's AHJ role for OCP projects
6/13/18	Clarify that TX Railroad Commission has amended NFPA 54 & 58
11/13/18	Revision to paragraph A.2 to clarify OCP role for non NFPA codes
6/16/20	Adopt 2018 Edition of NFPA 101 LSC, NFPA 1 FC, and IBC effective 7/1/20

8/3/20	Update effective date of SECO mandated energy & water standards
8/21/23	Update effective date of NFPA 1, 101, ICC codes, Energy Codes and applicable situations.
7/31/26	Adopt 2024 Edition of NFPA 101 LSC, NFPA 1 FC, IBC/IMC/IPC/IFGC, ASHRAE 90.1 – 2022, IECC 2024 and 2026 edition of NFPA 70 (NEC), effective 9/1/2026. Removed code and standard editions that are no longer applicable. Updated Exhibit 1 link to SFMO adopted rules.