

## Attachment A LANL Building Code (LBC)

This mandatory attachment lists the major LANL-adopted building codes and amendments to same. Comply with the codes and editions shown below and others required elsewhere in the ESM or Tailored Standards Manual (depending on project statement of work).

**New in this revision (older revisions addressed in Record of Revisions at the end of this document)**

UMC and UPC were 2021, now 2024 and appendices. USEHC was 2012 or 2015, now 2024. TSM usage addressed. Other minor changes.

| Topic                            | Code<br>( <i>LANL access <a href="#">here</a><sup>1</sup></i> ) | Adopted Edition                          | Date LANL Adopted | LANL Amendments                                                                                       | NMAC Amendments <sup>2</sup> |
|----------------------------------|-----------------------------------------------------------------|------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------|------------------------------|
| New buildings                    | IBC -- International Building Code                              | 2021                                     | 3/22/2023         | ESM Ch. 16 IBC-GEN, this attachment, and various <a href="#">ESM</a> and <a href="#">TSM</a> chapters | <a href="#">14.7.2</a>       |
| Existing buildings               | IEBC -- International Existing Building Code                    |                                          |                   | IBC-GEN and its Att B (LEBC)                                                                          | <a href="#">14.7.7</a>       |
| Electrical                       | NEC -- NFPA 70 National Electrical Code                         | 2020 <sup>3</sup>                        | 3/22/2023         | ESM <a href="#">Chapter 7</a> and <a href="#">TSM</a>                                                 | <a href="#">14.10.4</a>      |
| Energy                           | see ESM <a href="#">Chapter 14</a>                              |                                          |                   |                                                                                                       |                              |
| Fire                             | IFC – Int'l Fire Code                                           | 2021 <sup>4</sup>                        | 3/22/2023         | ESM <a href="#">Chapter 2</a> and <a href="#">TSM</a>                                                 | <a href="#">10.25.5</a>      |
| Fire                             | NPFA 101                                                        | see ESM Ch. 2 Att 1                      |                   | ESM <a href="#">Chapter 2</a> and <a href="#">TSM</a>                                                 | –                            |
| Mechanical                       | UMC -- IAPMO Uniform Mechanical Code                            | 2024 (and their appendices) <sup>5</sup> | 7/29/2026         | Chapter 6 of <a href="#">ESM</a> and <a href="#">TSM</a>                                              | <a href="#">14.9.2</a>       |
| Plumbing                         | UPC -- IAPMO Uniform Plumbing Code                              |                                          |                   |                                                                                                       | <a href="#">14.8.2</a>       |
| Solar, Hydronics, and Geothermal | USHGC -- IAPMO Uniform Solar, Hydronics, and Geothermal Code    | 2024 <sup>6</sup>                        | 7/29/2026         | Chapters 6 and 7 <sup>7</sup> of <a href="#">ESM</a> and <a href="#">TSM</a>                          | <a href="#">14.9.6</a>       |

Follow later editions of the above codes only if the newer edition dates themselves are specifically stated in the

<sup>1</sup> For LANL, normally available to LANL through Research Library's Accuris Engineering Workbench (EWB) subscription. Because newer may exist, uncheck "Most Recent" when searching. NFPA is read-only. **IAPMO NOTE:** Until LANL's [Accuris EWB](#) includes the 2024 U-codes (~Jan 2027), users can check for changes versus the 2021's (e.g., change bars) in [IAPMO](#) website read-only files, directly: 2024 [UMC](#), [UPC](#), [USHGC](#).

<sup>2</sup> Refer to ESM [Chapter 1](#) Section Z10 (under Codes and Standards) regarding these and other NMAC regulations.

<sup>3</sup> NFPA 70-2020 adoption was intended by [ESC](#) via memo OSH-22-112 effective 2023-1-2; ESM promulgates for design work. A later version should be used if adopted by the LANL Worker Safety and Health Plan PD100, P101-13 for electrical safety, or functional document supporting either. The 2020 meets/exceeds the 2017 NEC, incorporated by reference by 10CFR851 (issued 1/17/18). (Note: NEC is in IBC scope, made clear by the IBC: "2701.1 Scope. The provisions of this chapter and NFPA 70 shall govern the design, construction, erection and installation of the electrical components, appliances, equipment, and systems used in buildings and structures covered by this code..." [as well as IBC Appendix K adoption herein.] ICC staff opinion concurs.)

<sup>4</sup> IFC: 2021 to harmonize with IBC-2021. [Note, aligns with NMAC [10.25.5](#) (11/1/2022) and [St. FM Office](#) Code Enforcement page's Plans Submittal Info Packet for IFC 2021 (r2, 12/22)]

<sup>5</sup> UMC/UPC: Note, LANL's adoptions aligns with NM's on 8/1/2026, and previous [allowing A2L refrigerants](#) per UMC 2024.

<sup>6</sup> USHGC: 2024 due to improved content and subscription availability over NMAC-cited USEHC-2012 (solar energy and hydronics).

<sup>7</sup> For solar, there were no ESM Ch 6 amendments in D30HVAC Rev. 6. For PV, Ch 7 D5090 includes requirements.

LANL/DOE contract or project's Subcontract; conversely, do not use later editions only because another ESM chapter states or implies latest edition.<sup>8</sup>

LANL-Approved Interpretations

[Interpretations from the ICC](#)

LANL interpretations and variances to this chapter may be listed on ESM Chapter page; they are incorporated into the ESM chapters upon next revision.

The 2021 IBC is adopted as mandatory with the following [LANL Amendments \(in addition to those above\)](#):

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<sup>8</sup> Adoption of newer codes by NM only becomes effective when this attachment is revised to reflect such. DOE O 420.1C (in LANL Contract) Contractor Requirements Document (1.c) requires the IBC (or possibly regional equivalent). See also ESM [Chapter 1](#) Section Z10 (under Codes and Standards).

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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|     | <p>Note: In the paragraphs below, the invoked discipline chapter refers to the project's Engineering Standards design criteria document of record – either the ESM or TSM – except where ESM is stated.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| LBC | <p style="text-align: center;"><b>CHAPTER 1 ADMINISTRATION</b></p> <p><b>SECTION 101 SCOPE AND GENERAL REQUIREMENTS</b> (substitutions apply to this section and throughout Code)</p> <p><b>101.1 Title.</b> Substitute: These regulations shall be known as the LANL Building Code, hereinafter referred to as "this code." In addition to the code adoptions in Att A table (above), substitute as follows:</p> <p><b>101.4.1. Gas.</b> Substitute Fire Chapter 2 and Pressure Safety Ch. 17, and NFPA 54 National Fuel Gas Code for International Fuel Gas Code.</p> <p><b>101.4.2. Mechanical.</b> Substitute Mechanical Chapter 6 for International Mechanical Code and follow UMC.</p> <p><b>101.4.3. Plumbing.</b> Substitute Mechanical Chapter 6 for International Plumbing Code and follow UPC.</p> <p><b>101.4.4. Property maintenance.</b> For Int'l Property Maintenance Code, substitute LANL policies and procedures on facility maintenance (including LANL 900-series policy documents and FSDs, O&amp;Ms, PMIs, PDs, Ps, APs, etc.).</p> <p><b>101.4.5. Fire prevention.</b> Follow Fire Chapter 2. The LANL Fire Marshal is the Authority Having Jurisdiction for fire and life-safety requirements of all applicable codes and standards.</p>                                                                                    |
| LBC | <p><b>101.4.6. Energy.</b> Follow Sustainable Design Ch 14.</p> <p><b>101.4.7. Existing buildings.</b> Follow ESM Chapter 16 IBC-GEN Attachment B.</p> <p><b>SECTION 103 DEPARTMENT OF BUILDING SAFETY</b></p> <p><b>103.1 Creation of enforcement agency.</b> Substitute: The LANL Building Department (a virtual department) is hereby created and the official in charge thereof shall be known as the LANL Building Official (LBO).</p> <p><b>103.2 Appointment.</b> Add: LBO duties are fulfilled by multiple NNSA-assigned LBOs.</p> <p><b>103.3 Deputies.</b> Add: LBO duties are fulfilled by multiple NNSA-assigned LBOs, and the LANL Fire Marshal may act for fire and life-safety related matters.</p> <p><i>A building department organization chart is maintained on the LBO webpage <a href="#">here</a>.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| LBC | <p><b>SECTION 104 DUTIES AND POWERS OF BUILDING OFFICIAL</b></p> <p><b>104.1 General.</b> Where IBC states "The building official shall have the authority to render interpretations of this code and to adopt policies and procedures in order to clarify the application of its provisions," LANL shall use the LANL Engineering Standards clarification/interpretation/variance policy stated in ESM Chapter 1 Section Z10; this will involve the POC for this chapter, the Fire Marshal for fire/life safety matters, the Electrical AHJ for those matters, and the Engineering Standards POCs for affected disciplines (e.g., structural, architectural).</p> <p>In addition, the LBO shall approve any alternate method, variance, or exception that relates to the administrative aspects of this chapter (e.g., design/plan review, inspection, occupancy).</p> <p><b>104.2 Applications and permits.</b> Traditional permits are not used at LANL. Therefore, instead of the LBO issuing permits for the erection and alteration, demolition and moving of buildings and structures, LANL shall control building activities through the internal project management/initiation (<a href="#">SD 350</a>) and PRID processes, and the LBO provides approval through the plan (design) review and permitting process described in IBC-GEN.</p> |

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| LBC | <p>Note: All other IBC references to permits (105, etc.) shall be taken to mean these LANL internal processes.</p> <p><b>104.3 Notices and orders.</b> Substitute: The LBO shall issue all necessary notices and orders (including stop work orders) to ensure compliance with the IBC.</p> <p><b>104.5 Identification.</b> Delete.</p> <p><b>105.4 Validity of permit [and elsewhere].</b> LANL Standards have the force of ordinance of the jurisdiction. Example: "The issuance or granting of a <i>permit</i> shall not be construed to be a <i>permit</i> for, or an approval of, any violation of any of the provisions of this code or of any other ordinance of the jurisdiction..."</p> <p><b>SECTION 107 SUBMITTAL DOCUMENTS</b><br/>See IBC-GEN body, and ESM or TSM Ch. 1 and other chapters for additional requirements.</p> <p><b>SECTION 108 TEMPORARY STRUCTURES AND USES</b><br/>See also IBC-GEN body regarding definition of temporary and related requirements.</p> <p><b>SECTION 109 FEES</b><br/>Deleted.</p> <p><b>SECTION 110 INSPECTIONS</b><br/>See also this Chapter.</p> |
| LBC | <p><b>SECTION 111 CERTIFICATE OF OCCUPANCY</b><br/>See this Chapter for amendments.</p> <p><b>SECTION 112 SERVICE UTILITIES</b><br/>Also see O&amp;M Criterion 302 and 303 (<i>internal website, use Z # and WIN password</i>) and consult with LANL Utilities for utility connections and disconnections. Where those policies and the IBC conflict, the Utilities documents take precedence.</p> <p><b>SECTION 113 BOARD OF APPEALS</b><br/>Substitute: The LANL Site Chief Engineer will resolve conflicts when necessary.</p> <p><b>SECTION 114 VIOLATIONS</b><br/>Substitute: Violations will result in Non-conformance Reports being issued with elevation to upper management as appropriate.</p>                                                                                                                                                                                                                                                                                                                                                                                             |
| LBC | <p>Section IBC-GEN includes a form, LBO Notice of Violation, for this purpose.</p> <p><b>SECTION 115 STOP WORK ORDER</b><br/>Substitute: As with any LANL employee, whenever the LBO finds any work regulated by this code being performed in a manner dangerous or unsafe, the building official is authorized to issue a stop work order. Work contrary to this code will be treated as a violation (Section 114).</p> <p><b>SECTION 116 UNSAFE STRUCTURES AND EQUIPMENT</b><br/>Deleted. In general, this is the LANL Facility Operations Director responsibility; however, the LBO or Fire Marshal may require actions to improve or vacate.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

LBC

CHAPTER 2  
DEFINITIONS

Adopted with the following amendments:

| IBC Reference/Term                 | Take to mean                                                                                                                |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Building official                  | LBO                                                                                                                         |
| lot line                           | In the context of a construction project, the location of the physical barrier (e.g., fence or barrier) surrounding a site. |
| owner                              | The facility managing organization, typically Facility Operations Director                                                  |
| Unsafe Condition (IEBC 115.1, 202) | Further defined for electrical as not conforming to NFPA 70E, <i>Standard for Electrical Safety in the Workplace</i> .      |

Other LANL-specific definitions are controlled by the GLOS-COE-1, the [Conduct of Engineering Glossary](#).

CHAPTERS 3-9, 11-15, 24-26, and 30-31

See Fire Chapter 2 and Architectural Chapter 4 for amendments.

CHAPTERS 16 and 18-23

See Structural Chapter 5 for amendments.

LBC

CHAPTER 17  
STRUCTURAL TESTS AND SPECIAL INSPECTIONS

See Chapter 16 for amendments.

CHAPTER 33  
SPECIAL CONSTRUCTION

SECTION 3115 INTERMODAL SHIPPING CONTAINERS

All containers are subject to IBC-GEN (including Prefab subsection and App. B if applicable); LANL interpretation of 3115 is captured there.

ALL OTHER MANDATORY (Not appendix) CHAPTERS NOT LISTED ABOVE

Follow as written except where amended by ESM or TSM.

LBC

APPENDIX A  
EMPLOYEE QUALIFICATIONS

Adopted as a mandatory appendix with the following amendments:

A101.1 Building official. No changes; national certification (e.g., ICC) remains optional. Same for Deputy LBOs.

A101.2 Chief inspector. A professional engineer’s license or LBO judgment of suitability may substitute for the requirement to have a nationally recognized certification for the trade.

A101.3 Inspector and plan examiner. Substitute:

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|  | <p>1. Inspectors, including Special Inspectors, shall be qualified based on the guidelines set forth in Engineering Standards Manual Chapter 16, Section IBC-TIA, Att. B (may waive national certification).</p> <p>2. Plans Examiners shall be engineers, architects, or designers selected by the LBO(s) or Deputies and involved in the review of building designs and having at least 5 years' experience. National certification not required.</p> <p><b>A101.4 Termination of employment.</b> Deleted.</p> <p style="text-align: center;"><b>APPENDIX B<br/>BOARD OF APPEALS</b></p> <p>Not adopted; appeals per ESM Chapter 1 Section Z10 on clarifications, etc.</p> <p style="text-align: center;"><b>APPENDIX C<br/>GROUP U -- AGRICULTURAL BUILDINGS</b></p> <p>Contact architectural POC for guidance if and when such buildings are to be constructed.</p> <p style="text-align: center;"><b>APPENDIX D<br/>FIRE DISTRICTS</b></p> <p>Not adopted; contact Fire Marshal with any questions on this matter.</p> <p style="text-align: center;"><b>APPENDIX E<br/>SUPPLEMENTARY ACCESSIBILITY REQUIREMENTS</b></p> <p>Not adopted; addressed by Chapter 4 Architectural.</p> <p style="text-align: center;"><b>APPENDIX F<br/>RODENTPROOFING</b></p> <p>Adopted.<sup>9</sup></p> <p style="text-align: center;"><b>APPENDIX G<br/>FLOOD-RESISTANT CONSTRUCTION</b></p> <p>Not adopted.<sup>10</sup></p> <p style="text-align: center;"><b>APPENDIX H<br/>SIGNS</b></p> <p>Adopted.</p> <p style="text-align: center;"><b>APPENDIX I<br/>PATIO COVERS</b></p> <p>Adopted, as it may also have applicability for awnings, bus shelters, muster areas, etc.</p> <p style="text-align: center;"><b>APPENDIX J<br/>GRADING</b></p> <p>Adopted.<sup>11</sup></p> |
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<sup>9</sup> Rodents in New Mexico can carry hanta virus, plague

<sup>10</sup> LANL building construction is likely to be on high ground

<sup>11</sup> Required by State of New Mexico, adopted by LANL

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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|  | <p style="text-align: center;"><b>APPENDIX K</b></p> <p style="text-align: center;"><b>ADMINISTRATIVE PROVISIONS [re Electrical]</b></p> <p>Adopted, except where provisions conflict with other Chapter 7 or NEC provisions; however, mere differences are not a conflict and the most stringent apply unless waived by the Electrical Standards POC or AHJ.</p> <p style="text-align: center;"><b>APPENDIX L</b></p> <p style="text-align: center;"><b>EARTHQUAKE RECORDING INSTRUMENTATION</b></p> <p>Not adopted.<sup>12</sup></p> <p style="text-align: center;"><b>APPENDIX M</b></p> <p style="text-align: center;"><b>TSUNAMI-GENERATED FLOOD HAZARD</b></p> <p>Not adopted.<sup>13</sup></p> |
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<sup>12</sup> Driven sufficiently by DOE O 420.1C (CRD IV.3.e)

<sup>13</sup> Not credible for LANL

### RECORD OF REVISIONS

| Rev | Date       | Description                                                                                                                 | POC                             | RM                                   |
|-----|------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------|
| 0   | 10/27/06   | Initial issue. Requirements formerly in Ch 1 Section Z10.                                                                   | Tobin Oruch,<br><i>CENG-OFF</i> | Kirk Christensen,<br><i>CENG-OFF</i> |
| 1   | 6/19/07    | Added NM Bldg Code; Ch. 34, App A. Org changes.                                                                             | Tobin Oruch,<br><i>CENG-OFF</i> | Kirk Christensen,<br><i>CENG-OFF</i> |
| 2   | 7/21/08    | Update for 2006 IBC and its appendices, other minor changes.                                                                | Tobin Oruch,<br><i>CENG-OFF</i> | Kirk Christensen,<br><i>CENG-OFF</i> |
| 3   | 9/15/09    | Addressed editions to be used, optional Supplements, and reference editions.                                                | Tobin Oruch,<br><i>CENG-OFF</i> | Gary Read,<br><i>CENG-OFF</i>        |
| 4   | 8/25/10    | Added NEC, IECC. Newer code adoptions will be by revision of this document.                                                 | Tobin Oruch,<br><i>CENG-OFF</i> | Larry Goen,<br><i>CENG-OFF</i>       |
| 5   | 6/20/11    | Adopted 2009 codes concurrent with NM.                                                                                      | Tobin Oruch,<br><i>CENG-OFF</i> | Larry Goen,<br><i>CENG-OFF</i>       |
| 6   | 9/24/13    | Corrections regarding adopted NFPA editions and numbering of 107-116.                                                       | Tobin Oruch,<br><i>CENG-OFF</i> | Larry Goen,<br><i>CENG-OFF</i>       |
| 7   | 5/22/14    | Clarified regarding adopted NEC edition. Became Att. versus App.                                                            | Tobin Oruch,<br><i>ES-DO</i>    | Mel Burnett,<br><i>ES-DO</i>         |
| 8   | 3/30/15    | Update for 2015 I-Codes and other adoptions. Eliminated exception on structural labelling for code compliance (was 1703.5)  | Tobin Oruch,<br><i>ES-DO</i>    | Larry Goen,<br><i>ES-DO</i>          |
| 9   | 7/29/15    | Adopted 2012 Uniform codes including USEC.                                                                                  | Tobin Oruch,<br><i>ES-DO</i>    | Larry Goen,<br><i>ES-DO</i>          |
| 10  | 4/05/2018  | Minor updates following NM adoption of 2015 IBC/IEBC and NFPA 70-2017; changed NFPA 101.                                    | Tobin Oruch,<br><i>ES-FE</i>    | Larry Goen,<br><i>ES-DO</i>          |
| 11  | 7/10/2018  | Minor updates following NM adoption of 2015 UPC and UMC.                                                                    | Tobin Oruch,<br><i>ES-FE</i>    | Larry Goen,<br><i>ES-DO</i>          |
| 12  | 2/5/2021   | IECC became 2018, NFPA editions per Ch. 2 Att. 1, added date-adopted column.                                                | Tobin Oruch,<br><i>ES-FE</i>    | Jim Streit,<br><i>ES-DO</i>          |
| 13  | 4/21/2022  | UMC/UPC became 2021, added NFPA 54 National Fuel Gas Code, other minor changes.                                             | Tobin Oruch,<br><i>ES-FE</i>    | Jason Apperson,<br><i>ES-DO</i>      |
| 14  | 03/22/2023 | Adopted 2021 IBC (and its App. K), IEBC, IFC; NEC 2020, other minor changes.                                                | Tobin Oruch,<br><i>ES-FE</i>    | Michael Richardson,<br><i>ES-DO</i>  |
| 15  | 2/09/2024  | For energy, deleted IECC (now ASHRAE 90.1 for all matters, per ESM Ch. 14 r12). Added NFPA 101.                             | Tobin Oruch,<br><i>ES-FE</i>    | Michael Richardson,<br><i>ES-DO</i>  |
| 16  | 7/29/2026  | UMC and UPC were 2021, now 2024 and appendices. USEHC was 2012 or 2015, now 2024. TSM usage addressed. Other minor changes. | Tobin Oruch,<br><i>ES-FE</i>    | Robert Swickley,<br><i>ES-DO</i>     |