

## **Industry Standards, Regulations & Safety Resources**

| Category | Standard / Regulation | Title   | Notes   | Web Link  |
|----------|-----------------------|---|---|---|
| AISC     | AISC                  | American Institute of Steel<br>Construction     | To serve the structural steel design community and construction industry in the United States.  | https://www.aisc.org/   |
| ALI      | ALI                   | American Ladders Institute                      | Developer of safety standards for the ladder industry.  | https://www.americanladderinstitute.org/  |
| ALI      | ANSI/ASC A14.3        | Ladders - Fixed - Safety<br>Requirements        | Standard prescribes minimum requirements for the design, construction, and use of fixed ladders, and sets forth requirements for cages, wells, and ladder safety systems used with fixed ladders, in order to minimize personal injuries. | https://webstore.ansi.org/Standards/ALI/ANSI-ASCA142008R2018-1719324  |
| ANSI     | ANSI                  | American National Standards<br>Institute        | Oversees standards and conformity assessment activities in the U.S.   | https://ansi.org/   |
| ANSI     | ANSI Z49.1:2012       | Safety in Welding, Cutting and Allied Processes | Foot protection.  | https://webstore.ansi.org/Standards/AWS/AN-SIZ492012  |
| ASME     | ASME                  | The American Society of Mechanical Engineers    | Promotes the art, science, and practice of multidisciplinary engineering and allied sciences around the globe.  | https://www.asme.org/   |
| ASME     | ANSI/ASME B30.12      | Handling Loads Suspended from Rotorcraft        | Applies to the construction, installation, operation, inspection, testing, maintenance, and use of cranes and other lifting and material-movement related equipment.  | https://webstore.ansi.org/Standards/ASME/<br>ASMEB30122011  |
| ASME     | ANSI/ASME B30.20      | Below the Hook Lifting Devices                  | Safety standard for cableways, cranes, derricks, hoists, hooks, jacks, and slings.  | https://www.asme.org/codes-standards/find-<br>codes-standards/b30-20-hook-lifting-devices   |
| ASME     | ANSI/ASME B30.23      | Personnel Lifting Systems                       | Applies to hoisting equipment used to lift, lower or transport personnel.   | https://webstore.ansi.org/Standards/<br>ASME/ASMEB30232016?gclid=CjwKCA-<br>jw7J6EBhBDEiwA5UUM2iqFBBeyaC-<br>c23c9ENpFPNvE-RVJdz2a5ZwgxqtUSY-<br>YoWS6iBr4AOtxoCogOQAvD_BwE |
| ASME     | ANSI/ASME B30.26      | Rigging Hardware                                | Construction, installation, operation, inspection and maintenance of rigging hardware used for load handling activities. Standard for any hardware component used while hoisting within the industry.                                     | https://global.ihs.com/doc_detail.<br>cfm?&item_s_key=00454787&item_key_<br>date=840224&input_doc_number=ANSI%20<br>ASME%20B30%2F26&input_doc_title=                        |
| ASME     | ANSI/ASME B30.30      | Ropes   | Selection, installation, attachment, testing, inspection, maintenance, repair, use, and replacement of all types of rope. Ropes used in rigging configuration.  | https://global.ihs.com/doc_detail.<br>cfm?&item_s_key=00778410&item_key_date=801231&input_doc_number=ANSI%20<br>ASME%20B30%2E30&input_doc_title=                            |
| ASME     | ANSI/ASME B30.7       | Winches (base mounted hoists)                   | Base mounted hoist standard applies to the construction, installation, operation, inspection, testing and maintenance of winches arranged for mounting on a foundation or other supporting structure for moving loads.                    | https://global.ihs.com/doc_detail.<br>cfm?&item_s_key=00007376&item_key_date=830315&input_doc_number=ANSI%20<br>ASME%20B30%2E7&input_doc_title=                             |

Page 1 of 7

Last Revised July 23, 2021

| Category | Standard / Regulation | Title  | Notes   | Web Link   |
|----------|-----------------------|--|---|--|
| ASME     | ANSI/ASME B30.9       | Slings   | Applies to the fabrication, attachment, use, inspection, testing, and maintenance of slings used for load handling purposes, used in conjunction with equipment described in other volumes of the B30 Standard. | https://global.ihs.com/doc_detail.<br>cfm?&item_s_key=00007378&item_key_date=810716&input_doc_number=ANSI%20<br>ASME%20B30%2E9&input_doc_title=                                      |
| ASSP     | ASSP                  | American Society of Safety<br>Professionals  | Global association for occupational safety and health professionals.  | https://www.assp.org/  |
| ASSP     | ANSI/ASSP Z359        | The Fall Protection and Arrest<br>Standards Package  | The standards included in the Z359 Fall Protection and Arrest Package provide organizations with a comprehensive resource for protecting workers at heights.  | https://webstore.ansi.org/Standards/ASSE/AN-SIASSEZ359FallProtection   |
| ASSP     | ANSI/ASSP A10.32      | Personal Fall Protection Used in Construction and Demolition Operations  | Standard establishes performance criteria for personal fall protection equipment and systems in construction and demolition and provides guidelines, recommendations for their use and inspection.              | https://webstore.ansi.org/Standards/ASSE/AN-SIASSEA10322012  |
| ASSP     | ANSI/ASSP A10.33      | Safety and Health Program<br>Requirements for Multi-Employer<br>Projects   | Multi-employer projects.  | https://webstore.ansi.org/standards/<br>asse/ansiassea10332011r2016?gclid=C-<br>jwKCAjwu5CDBhB9EiwA0w6sLdok-<br>k1JjjBqfdPq-ID90qFtMgVWo6hpf3vKU-<br>vtueHnvpZ9-9tdfiRRoCNLgQAvD_BwE |
| ASSP     | ANSI/ASSP A10.34      | Protection of the Public on or<br>Adjacent to Construction Sites   | Public safety.  | https://store.assp.org/PersonifyEbusiness/<br>Store/Product-Details/productId/5872   |
| ASSP     | ANSI/ASSP A10.4       | Safety Requirements for Personnel<br>Hoists and Employee Elevators on<br>Construction and Demolition Sites                         | Personnel hoists and employee elevators.  | https://webstore.ansi.org/Standards/ASSE/AN-SIASSEA102016  |
| ASSP     | ANSI/ASSP A10.42      | Safety Requirements for Rigging Qualifications and Responsibilities  | Rigging.  | https://store.assp.org/PersonifyEbusiness/<br>Store/Product-Details/productId/31442893   |
| ASSP     | ANSI/ASSP A10.44      | Control of Energy Sources (Lockout/<br>Tagout) for Construction &<br>Demolition Operations   | Electrical safety.  | https://store.assp.org/PersonifyEbusiness/<br>Store/Product-Details/productId/205476568  |
| ASSP     | ANSI/ASSP A10.48      | Criteria for Safety Practices with<br>the Construction, Demolition,<br>Modification and Maintenance of<br>Communication Structures | Means and methods for working on communications structures.   | https://natehome.com/regulations-standards/<br>standards/ansi-asse-a10-48/   |
| ASSP     | ANSI/ASSP A10.5       | Safety Requirements for Material Hoists  | Hoist requirements.   | https://webstore.ansi.org/standards/asse/ansi-assea102013-1452307  |
| ASSP     | ANSI/ASSP Z490.1      | Criteria for Accepted Practices in<br>Safety, Health, and Environmental<br>Training  | This standard establishes criteria for safety, health and environmental training programs, including program management, development, delivery, evaluation and documentation.                                   | https://webstore.ansi.org/Standards/ASSE/AN-SIASSEZ4902016   |
| ASSP     | ANSI/ASSP Z87.1       | Occupational and Educational<br>Personal Eye and Face Protection<br>Devices  | Eye protection/safety glasses.  | https://webstore.ansi.org/Standards/ASSE/AN-SIASSEZ872003  |
| ASTM     | ASTM                  | American Society for Testing and Materials   | Standard developing partner.  | https://www.astm.org/  |

Page 2 of 7

Last Revised July 23, 2021

| Category | Standard / Regulation        | Title  | Notes  | Web Link  |
|----------|------------------------------|--|--|---|
| AWS      | AWS D1.1/D1.1M               | Structural Welding Code-Steel  | This code covers the welding requirements for any type of welded structure made from the commonly used carbon and low-alloy constructional steels.   | https://pubs.aws.org/p/1959/d11d11m2020-<br>structural-welding-code-steel?utm_<br>source=aws%20print&utm_medium=publi-<br>cations%20catalog?utm_source=welding%20<br>productivity&utm_medium=interstitial |
| AWS      | AWS                          | American Welding Society   | To advance the science, technology and application of welding and allied joining and cutting processes, including brazing, soldering and thermal spraying.   | https://www.aws.org/  |
| AWS      | AWS D1.2/D1.2M               | Structural Welding Code-Aluminum   | This code covers the welding requirements for any type structure made from aluminum structural alloys, except for aluminum pressure vessels and pressure piping.   | https://pubs.aws.org/p/1277/<br>d12d12m2014-structural-welding-code-alu-<br>minum   |
| CFR      | CFR                          | Code of Federal Regulation   | The codification of the general and permanent rules published in the Federal Register by the departments and agencies of the Federal Government produced by the Office of the Federal Register (OFR) and the Government Publishing Office. | https://www.ecfr.gov/cgi-bin/EC-FR?page=browse  |
| CFR      | 14 CFR Part 107              | Small Unmanned Aircraft Systems  | FAA Part 107- rules for small unmanned aircraft systems (UAS), or "drone," operations cover a broad spectrum of commercial and government uses for drones weighing less than 55 pounds.  | https://www.ecfr.gov/cgi-bin/text-idx?SID=d-c908fb739912b0e6dcb7d7d88cfe6a7&mc=true&node=pt14.2.107&rgn=div5  |
| CFR      | 47 CFR 1.1310                | Radiofrequency Radiation<br>Exposure Limits                                    | Regulation on RF exposure limits.  | https://www.govinfo.gov/app/details/CFR-<br>2010-title47-vol1/CFR-2010-title47-vol1-<br>sec1-1310/summary   |
| CFR      | 47 CFR 74.30                 | Antenna Structure Marking and Lighting   | Regulation on marking and lighting, tower owners, and lighting/painting work.  | https://www.govinfo.gov/app/details/CFR-2010-title47-vol4/CFR-2010-title47-vol4-sec74-30/context  |
| CFR      | FMCSA - 49 CFR - Part<br>390 | FMCSR, General Regulations   | Applicable to all employers, employees, and commercial motor vehicles that transport property or passengers in interstate commerce.  | https://www.ecfr.gov/cgi-bin/retrieveECFR?g-<br>p=1&ty=HTML&h=L&mc=true&=PART&n=<br>pt49.5.390  |
| CI       | Cordage Institute            | Rope, twine, and related manufacturers, suppliers, and industries association. | International Association dedicated to the advancement of rope and cordage products.   | https://www.ropecord.com/new/index.php  |
| CI       | CI 1801                      | Performance Requirements for<br>Low Stretch and Static Life Safety<br>Rope     | Requirements for manufacturers on low stretch/static kernmantle safety rope.   | https://www.ropecord.com/cart/cartpubs_n.asp  |
| CI       | CI 1805                      | Standard: 3-Strand Life Safety<br>Rope, Moderate Stretch                       | Standard for manufacturers on requirements.  | https://www.ropecord.com/cart/cartpubs_n.asp  |
| CI       | CI 2005                      | Guideline: Inspection of Kernmantle<br>Ropes for Life Safety Applications      | Guide for inspection.  | https://www.ropecord.com/cart/cartpubs_n.asp  |
| FAA      | FAA                          | Federal Aviation Administration  | To provide the safest, most efficient aerospace system in the world.   | https://www.faa.gov/  |

Page 3 of 7

Last Revised July 23, 2021

| Category | Standard / Regulation                       | Title   | Notes  | Web Link   |
|----------|---|---|--|--|
| FAA      | FAA AC 70/7460-1M                           | Obstruction Marking and Lighting with Change 2  | Standard for structure owners to meet the lighting and marking requirements for structures. Working on lighting/painting.  | https://www.faa.gov/regulations_policies/<br>advisory_circulars/index.cfm/go/document.<br>current/documentnumber/70_7460-1                               |
| FAA      | FAA, Rotorcraft<br>External-Load Operations | Rotorcraft External-Load<br>Operations, Part 133  | Rotorcraft.  | https://www.faa.gov/hazmat/air_carriers/operations/part_133/   |
| FCC      | FCC   | Federal Communications<br>Commission  | Regulates interstate and international communications by radio, television, wire, satellite and cable in all 50 states, the District of Columbia, and U.S. Territories.            | https://www.fcc.gov/   |
| FCC      | FCC OET Bulletin Number 56                  | Questions and Answers about<br>Biological Effects and Potential<br>Hazards of Radio Frequency<br>Electromagnetic Fields                 | Understanding potential effects that RF may cause from exposure. Employee exposure to RF.  | https://www.fcc.gov/general/oet-bulletins-line   |
| FCC      | FCC OET Bulletin Number 65                  | Evaluating Compliance with FCC<br>Guidelines for Human Exposure to<br>Radiofrequency Electromagnetic<br>Fields                          | Allowable limitations of RF exposure.  | https://www.fcc.gov/general/oet-bulletins-line   |
| FMCSA    | FMCSA                                       | Federal Motor Carrier Safety<br>Administration (FMCSA)  | Improving the safety of commercial motor vehicles.   | https://www.fmcsa.dot.gov/   |
| IEEE     | IEEE  | Institute of Electrical and<br>Electronics Engineers - Advancing<br>Technology for Humanity   | To foster technological innovation and excellence for the benefit of humanity.   | https://www.ieee.org/  |
| IEEE     | ANSI/IEEE C95.1-2005                        | IEEE Standard for Safety Levels<br>with Respect to Human Exposure to<br>Radio Frequency Electromagnetic<br>Fields, 3 KHz to 300 GHz     | Radiofrequency.  | https://webstore.ansi.org/standards/ieee/ieeec952005?gclid=CjwKCAjw7J6EBhBDEi-wA5UUM2peeHIFhF0N_hYKEh5TLUkdV9_DcxQ9iKdUY_8tY4YAjN0KFWUELahoCZhY-QAvD_BwE |
| IEEE     | ANSI/IEEE C95.1-2019                        | Standard for Safety Levels with<br>Respect to Human Exposure to<br>Electric, Magnetic, and Electro-<br>magnetic Fields, 0 Hz to 300 GHz | Radiofrequency.  | https://webstore.ansi.org/Standards/IEEE/<br>IEEEC952019   |
| IRATA    | IRATA                                       | Industrial Rope Access Trade<br>Association   | To promote and maintain high standards, safety, work quality and working practices for the industrial rope access industry.  | https://irata.org/   |
| ISEA     | ISEA  | International Safety Equipment<br>Association   | Association for personal protective equipment and technologies that enable people to work in hazardous environments. ISEA is an ANSI accredited standards developing organization. | https://safetyequipment.org/   |
| ISEA     | ANSI/ISEA 107                               | Standard for High Visibility Safety<br>Apparel and Headwear   | Standard for high visibility garments when required.   | https://webstore.ansi.org/Standards/ISEA/AN-<br>SIISEA1072020  |
| ISEA     | ANSI/ISEA 121                               | Standard for Dropped Object<br>Prevention Solutions   | Standard for hoist buckets and tool tethering devices.   | https://webstore.ansi.org/Standards/ISEA/AN-SIISEA1212018  |

Page 4 of 7

Last Revised July 23, 2021

| Category | Standard / Regulation  | Title   | Notes  | Web Link   |
|----------|--|---|--|--|
| ISEA     | ANSI/ISEA Standard 121-<br>2018  | American National Standard for<br>Dropped Object Prevention<br>Solutions                    | Dropped object prevention.   | https://webstore.ansi.org/Standards/ISEA/AN-<br>SIISEA1212018  |
| ISEA     | ANSI/ISEA Z89.1  | American National Standard for<br>Industrial Head Protection                                | Head protection.   | https://webstore.ansi.org/Standards/ISEA/AN-<br>SIISEAZ892014R2019   |
| NATE     | NATE   | NATE: The Communications<br>Infrastructure Contractors<br>Association                       | Trade organization to provide a unified voice for companies in the diverse tower and communications infrastructure construction, service and maintenance industries. | https://natehome.com/  |
| NATE     | NATE - Anchor Inspection/<br>Safe to Climb Guide   | Anchor Inspection/Safe to Climb<br>Guide  | Reference when making a "judgment call" on whether or not to climb without foreknowledge of the condition of the underground anchors.                                | https://natehome.com/safety-education/safe-<br>ty-resources/anchor-inspection-safe-to-climb-<br>guide/   |
| NATE     | NATE - Base Mounted<br>Hoists Used for Overhead<br>Lifting and Personnel<br>Lifting Standard | Base Mounted Hoists Used for<br>Overhead Material Lifting and<br>Personnel Lifting Standard | Hoists.  | https://natehome.com/member-services-login/<br>safety-resources-members/base-mounted-<br>hoists-used-for-overhead-lifting-and-person-<br>nel-lifting-standard/ |
| NATE     | NATE - CTS   | NATE - Tower Climber Fall<br>Protection Training Standard (CTS)                             | Climbing training standard.  | https://natehome.com/safety-education/<br>safety-resources/product/nate-tower-climb-<br>er-fall-protection-training-standard-na-<br>te-cts-nonmember/          |
| NATE     | NATE - Guideline,<br>Inspection of Guy<br>Anchors in Direct<br>Contact with Soil             | Guideline, Inspection of Guy<br>Anchors in Direct Contact with Soil                         | Guy towers.  | https://natehome.com/safety-education/safe-<br>ty-resources/nate-guideline-inspection-of-guy-<br>anchors-in-direct-contact-with-soil/                          |
| NATE     | NATE - PAN's   | Planning Advisory Notices   | To advise and educate the many stakeholders of the industry. Safety Resources.   | https://natehome.com/safety-education/safety-resources/planning-advisory-notice/   |
| NATE     | NATE - RF Awareness<br>Booklet   | Resource Reference for RF<br>Awareness  | Radiofrequency.  | https://natehome.com/safety-education/<br>safety-resources/product/nate-resource-refer-<br>ence-for-rf-awareness-2/  |
| NATE     | NATE - Safety Equipment<br>Manufacturers Committee<br>Guide                                  | 2020 Guide for Wire Rope Safety<br>Climbs on Antenna Supporting<br>Structures               | Wire rope safety climb.  | https://natehome.com/safety-equipment-man-<br>ufacturers-committee-semc-initiatives/<br>safety-equipment-manufacturers-commit-<br>tee-semc/                    |
| NATE     | NATE - sUAS Operations<br>Best Practices Advisory  | sUAS Operations Best Practices<br>Advisory Resource   | Drone best practices in telecommunications industry.   | https://natehome.com/safety-education/<br>uas-operations/  |
| NATE     | NATE- Glossary of Tower<br>and Communications<br>Terminology (2020) Third<br>Edition         | Glossary of Tower and<br>Communications Terminology   | Common industry terminology.   | https://natehome.com/safety-education/<br>safety-resources/product/nate-glossary-of-tow-<br>er-and-communications-terminology-2/                               |
| NATE     | NATE- Migratory Birds<br>and Telecommunications<br>Facilities: A Guide for<br>Contractors    | Migratory Birds and<br>Telecommunications Facilities:<br>a Guide for Contractors            | Working on bird nest sites.  | https://natehome.com/safety-education/work-ing-on-bird-nest-sites/   |

Page 5 of 7

Last Revised July 23, 2021

| Category | Standard / Regulation  | Title   | Notes   | Web Link  |
|----------|--|---|---|---|
| NATE     | NATE- Suggested Fall<br>Protection - Rooftop Work<br>Area Protocol | Suggested Fall Protection - Rooftop<br>Work Area Protocol                           | Rooftop fall protection.  | https://natehome.com/safety-education/safe-<br>ty-resources/product/nate-suggested-fall-pro-<br>tection-rooftop-work-area-protocol-2/       |
| NATE     | NATE- Tower Site Hazard<br>Recognition Guide                       | Tower Site Hazard Recognition Guide   | Hazard recognition.   | https://natehome.com/safety-education/safety-resources/nate-tower-site-hazard-recognition-guide/  |
| NFPA     | NFPA   | National Fire Protection Association  | To minimize the possibility and effects of fire and other risks. Fire/electrical safety.  | https://www.nfpa.org/   |
| NFPA     | NFPA 10  | Standard for Portable Fire Extinguishers  | Covers the selection, installation, inspection, maintenance, and testing of portable extinguishing equipment.   | https://catalog.nfpa.org/NFPA-10-Standard-for-Portable-Fire-Extinguishers-P9075.<br>aspx?icid=D729  |
| NFPA     | NFPA 1061  | Standard for Public Safety Telecommunications Personnel Professional Qualifications | Specify the minimum job performance requirements for service as public safety telecommunications personnel.   | https://catalog.nfpa.org/NFPA-1061-Standard-for-Public-Safety-Telecommunications-Personnel-Professional-Qualifications-P1402.aspx?icid=D729 |
| NFPA     | NFPA 70  | National Electrical Code  | Code for electrical (national). Local codes may supersede.  | https://catalog.nfpa.org/NFPA-70-Nation-<br>al-Electrical-Code-NEC-Softbound-P1194.<br>aspx   |
| NFPA     | NFPA 70E   | Standard for Electrical Safety in the Workplace                                     | Electrical safety.  | https://catalog.nfpa.org/NFPA-70E-Standard-<br>for-Electrical-Safety-in-the-Workplace-P1197.<br>aspx?icid=D729                              |
| OSHA     | OSHA   | Occupational Safety and Health<br>Administration                                    | To ensure safe and healthful working conditions for workers by setting and enforcing standards and by providing training, outreach, education and assistance.                   | https://www.osha.gov/   |
| OSHA     | OSHA 1910  | Occupational Safety and Health Standards  | Applies to general industry (non-construction).   | https://www.osha.gov/laws-regs/regulations/<br>standardnumber/1910  |
| OSHA     | OSHA 1926  | Safety and Health Regulations for Construction                                      | Applies to construction.  | https://www.osha.gov/laws-regs/regulations/<br>standardnumber/1926  |
| OSHA     | OSHA CPL 02-01-056   | Inspection Procedures for Accessing Communication Towers by Hoist                   | Personnel hoisting by use of gin pole (Riding the Line).  | https://www.osha.gov/enforcement/directives/cpl-02-01-056   |
| OSHA     | OSHA-FCC<br>Communication Tower<br>Best Practices                  | Communication Tower Best Practices  | Communication tower best practices safety document.   | https://natehome.com/safety-education/os-<br>ha-fcc-communication-tower-best-practices/   |
| SAIA     | ANSI/SAIA A92.22   | Safe Use of Mobile Elevating Work Platforms (MEWPs)                                 | Specifies requirements for application, inspection, training, maintenance, repair and safe operation of mobile elevating work platforms (aerial lifts). Aerial lift / MEWP use. | https://webstore.ansi.org/Standards/SIA/ANSI-SAIAA92222020  |
| SAIA     | SAIA   | Scaffold & Access Industry<br>Association   | Organization that administers and coordinates the U.S. voluntary standardization and conformity assessment system.  | https://www.saiaonline.org/ansi   |
| SPRAT    | SPRAT  | Society of Professional Rope Access<br>Technicians                                  | Organization that advances the safe use of rope access through education, standards development, and certification administration.  | https://sprat.org/  |

Page 6 of 7

Last Revised July 23, 2021

| Category | Standard / Regulation                               | Title   | Notes   | Web Link  |
|----------|---|---|---|---|
| STAC     | STAC  | Structure, Tower and Antenna<br>Council (STAC)  | Helps ensure communications antennas in Canada continue to be constructed with the highest regard to worker safety.   | https://www.stacouncil.ca/  |
| STATE    | Construction Safety & Health Standards Part 29 & 30 | Construction Safety & Health Standards  | State of Michigan specific communication towers and telecommunications safety standards.  | https://www.michigan.gov/leo/0,5863,7-336-<br>94422 11407 15368-39938,00.html   |
| STATE    | 13 NCAC 07F.0600                                    | Communication Tower Standards   | State of North Carolina specific communication tower standards.   | http://reports.oah.state.nc.us/ncac.asp?folderName=/Title%2013%20-%20Labor/Chapter%2007%20-%20Office%200f%20Occupational%20Safety%20and%20Health  |
| STATE    | Washington<br>Administrative Code<br>Chapter 296-32 | Safety Standards for Telecommunications   | State of Washington specific safety standards for telecommunications.   | https://app.leg.wa.gov/wac/default.aspx-<br>?cite=296-32  |
| TIA      | TIA   | Telecommunications Industry<br>Association  | Standards developing organization.  | https://tiaonline.org/  |
| TIA      | ANSI/TIA 222-H                                      | Structural Standard for Antenna<br>Supporting Structures, Antennas<br>and Small Wind Turbine Support<br>Structures                  | Communications structures engineering and maintenance standard. International Building Code recognized standard for structures and maintenance of those structures.   | https://global.ihs.com/doc_detail.cfm?&rid=l-<br>HS&item_s_key=00122271&item_key_<br>date=821231&input_doc_number=-<br>TIA%2D222&input_doc_title= |
| TIA      | ANSI/TIA 5053                                       | Mounting System Classification  | Requirements for mounting systems supporting antennas and related appurtenances. Mount classification to standardize nomenclature on mounts.  | https://global.ihs.com/doc_detail.cfm?doc-<br>ument_name=TIA%2D5053&item_s_<br>key=00735312   |
| TIA      | ANSI/TIA-322  | Loading Criteria, Analysis, and<br>Design Related to the Installation,<br>Alteration and Maintenance of<br>Communication Structures | Standard for engineers to verify structural loading during construction and gin pole loading. Modifying and introducing forces into a structure (engineering).  | https://natehome.com/regulations-standards/<br>standards/tia-1019/  |
| TIF      | TIF   | Telecommunications Industry Foundation  | Facilitates the development of and publication of Planning Advisory Notices (PAN) and White Papers.   | http://tifonline.org/white-papers/  |
| USDOT    | USDOT   | United States Department Of<br>Transportation   | Driving commercial vehicle. To ensure America has the safest, most efficient and modern transportation system in the world, which boosts our economic productivity and global competitiveness and enhances the quality of life in communities both rural and urban. | https://www.transportation.gov/about  |
| WIA      | WIA   | Wireless Infrastructure Association   | Regularly publishes white papers covering a variety of topics – from new technologies to potential regulatory issues.   | https://wia.org/resource-library/   |

Page 7 of 7

Last Revised July 23, 2021