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Methods to prevent lightning damage to your equipment (and your house), such as unplugging equipment, disconnecting antenna feed lines and using a lightning arrester. Line-of-sight propagation — The term used to describe VHF and UHF propagation within the radio horizon in a straight line directly from one station to another. ...

(C) Page 4-12 T9A11 What is the gain of an antenna? A. The additional power that is added to the transmitter power B. The increase in signal strength in a specified direction compared to a reference antenna D. The increase in impedance on receive or transmit compared to a reference antenna T9A11 (C) Page 4-7 T9A12 What is an advantage of using a properly mounted 5/8 wavelength antenna for VHF or UHF mobile service? A. It has a lower radiation angle and more gain than a 1/4 wavelength antenna B. It has very high angle radiation for better communicating through a repeater C. It eliminates distortion caused by reflected signals D. It has 10 times the power gain of a 1/4 wavelength design T9A12 (A) Page 4-12 T9B — Feed lines: types, attenuation vs frequency, selecting; SWR concepts; Antenna tuners (couplers); RF Connectors: selecting, weather protection T9B01 T9B01 Why is it important to have low SWR when using coaxial cable feed line? A. To reduce television interference B. To reduce signal loss C. To prolong antenna life D. All of these choices are correct (B) Page 4-11 T9B02 What is the impedance of most coaxial cables used in amateur radio installations? A. 8 ohms B. 50 ohms C. 600 ohms D. 12 ohms T9B02 (B) Page 4-9 T9B03 Why is coaxial cable the most common feed line selected for amateur radio antenna systems? A. It is easy to use and requires few special installation considerations B. It has less loss than any other type of feed line C. It can handle more power than any other type of feed line D. It is less expensive than any other type of feed line T9B03 (A) Page 4-9 T9B04 What is the major function of an antenna tuner (antenna coupler)? A. It matches the antenna system impedance to the transceiver's output impedance B. It helps a receiver automatically tune in weak stations C. It allows an antenna to be used on both transmit and receive D. It automatically selects the proper antenna for the frequency band being used T9B04 (A) Page 4-19 T9B05 In general, what happens as the frequency of a signal passing through coaxial cable is increased? A. The characteristic impedance decreases B. The loss decreases C. The characteristic impedance increases D. The loss increases T9B05 (D) Page 4-9 T9B06 Which of the following connectors is most suitable for frequencies above 400 MHz? A. A UHF (PL-259/SO-239) connector B. A Type N connector C. An RS-213 connector D. A DB-25 connector T9B06 (B) Page 4-18 T9B07 Which of the following is true of PL-259 type coax connectors? A. They are preferred for microwave operation B. They are watertight T9B07 (C) Page 4-18 C. They are commonly used at HF frequencies D. They are a bayonet type connector T9B08 Why should coax connectors exposed to the weather be sealed against water intrusion? A. To prevent an increase in feed line loss B. To prevent interference to telephones C. To keep the jacket from becoming loose D. All of these choices are correct T9B08 (A) Page 4-18 T9B09 What can cause erratic changes in SWR readings? A. The transmitter is being modulated B. A loose connection in an antenna or a feed line C. The transmitter is being over-modulated D. Interference from other stations is distorting your signal T9B09 (B) Page 4-11 T9B10 What is the electrical difference between RG-58 and RG-8 coaxial cable? A. There is no significant difference between the two types B. RG-58 cable has two shields C. RG-8 cable has less loss at a given frequency D. RG-58 cable can handle higher power levels T9B10 (C) Page 4-17 T9B11 Which of the following types of feed line has the lowest loss at VHF and UHF? A. 50-ohm flexible coax B. Multi-conductor unbalanced cable C. Air-insulated hard line D. 75-ohm flexible coax T9B11 (C) Page 4-9 SUBELEMENT T0 Electrical safety: AC and DC power circuits; antenna installation; RF hazards [3 Exam Questions — 3 Groups] T0A — Power circuits and hazards: hazardous voltages; fuses and circuit breakers; grounding; lightning protection; battery safety; electrical code compliance T0A01 Which of the following is a safety hazard of a 12-volt storage battery? A. Touching both terminals with the hands can cause electrical shock B. Shorting the terminals can cause burns, fire, or an explosion T0A01 (B) Page 9-3 C. RF emissions from the battery D. All of these choices are correct T0A02 What health hazard is presented by electrical current flowing through the body? A. It may cause injury by heating tissue B. It may disrupt the electrical functions of cells C. It may cause involuntary muscle contractions D. All of these choices are correct T0A02 (D) Page 9-2 T0A03 In the United States, what is connected to the green wire in a three-wire electrical AC plug? A. Neutral B. Hot C. Equipment ground D. The white wire T0A03 (C) Page 9-5 T0A04 What is the purpose of a fuse in an electrical circuit? A. To prevent power supply ripple from damaging a circuit B. To interrupt power in case of overload C. To limit current to prevent shocks D. All of these choices are correct T0A04 (B) Page 3-12 T0A05 Why is it unwise to install a 20-ampere fuse in the place of a 5-ampere fuse? A. The larger fuse would be likely to blow because it is rated for higher current B. The power supply ripple would greatly increase C. Excessive current could cause a fire D. All of these choices are correct T0A05 (C) Page 3-12 T0A06 What is a good way to guard against electrical shock at your station? A. Use three-wire cords and plugs for all AC powered equipment B. Connect all AC powered station equipment to a common safety ground C. Use a circuit protected by a ground-fault interrupter D. All of these choices are correct T0A06 (D) Page 9-4 T0A07 Which of these precautions should be taken when installing devices for lightning protection in a coaxial cable feed line? A. Include a parallel bypass switch for each protector so that it can be switched out of the circuit when running high power B. Include a series switch in the ground line of each protector to prevent RF overload from inadvertently damaging the protector C. Keep the ground wires from each protector separate and connected to station ground D. Mount all of the protectors on a metal plate that is in turn connected to an external ground rod T0A07 (D) Page 9-5 T0A08 What safety equipment should always be included in home-built equipment that is powered from 120V AC power circuits? A. A fuse or circuit breaker in series with the AC hot conductor B. An AC voltmeter across the incoming power source C. An inductor in parallel with the AC power source D. A capacitor in series with the AC power source T0A08 (A) Page 9-5 T0A09 What should be done to all external ground rods or earth connections? A. Waterproof them with silicone caulk or electrical tape B. Keep them as far apart as possible C. Bond them together with heavy wire or conductive strap D. Tune them for resonance on the lowest frequency of operation T0A09 (C) Page 9-5 T0A10 What can happen if a lead-acid storage battery is charged or discharged too quickly? A. The battery could overheat, give off flammable gas, or explode B. The voltage can become reversed C. The memory effect will reduce the capacity of the battery D. All of these choices are correct T0A10 (A) Page 5-19 T0A11 What kind of hazard might exist in a power supply when it is turned off and disconnected? A. Static electricity could damage the grounding system B. Circulating currents inside the transformer might cause damage C. The fuse might blow if you remove the cover D. You might receive an electric shock from the charge stored in large capacitors T0A11 (D) Page 9-2 T0B — Antenna safety; tower safety and grounding; erecting an antenna support; safely installing an antenna T0B01 When should members of a tower work team wear a hard hat and safety glasses? A. At all times except when climbing the tower B. At all times except when belted firmly to the tower C. At all times when any work is being done on the tower D. Only when the tower exceeds 30 feet in height T0B01 (C) Page 9-19 T0B02 What is a good precaution to observe before climbing an antenna tower? A. Make sure that you wear a grounded wrist strap B. Remove all tower grounding connections C. Put on a carefully inspected climbing harness(fall arrester)and safety glasses D. All of these choices are correct T0B02 (C) Page 9-19 T0B03 T0B03 Under what circumstances is it safe to climb a tower without a helper or observer? A. When no electrical work is being performed B. When no mechanical work is being performed C. When the work being done is not more than 20 feet above the ground D. Never (D) Page 9-20 T0B04 Which of the following is an important safety precaution to observe when putting up an antenna tower? A. Wear a ground strap connected to your wrist at all times B. Insulate the base of the tower to avoid lightning strikes C. Look for and stay clear of any overhead electrical wires D. All of these choices are correct T0B04 (C) Page 9-18 T0B05 What is the purpose of a gin pole? A. To temporarily replace guy wires B. To be used in place of a safety harness C. To lift tower sections or antennas D. To provide a temporary ground T0B05 (C) Page 9-20 T0B06 What is the minimum safe distance from a power line to allow when installing an antenna? A. Half the width of your property B. The height of the power line above ground C. 1/2 wavelength at the operating frequency D. Enough so that if the antenna falls unexpectedly, no part of it can come closer than 10 feet to the power wires T0B06 (D) Page 9-18 T0B07 Which of the following is an important safety rule to remember when using a crank-up tower? A. This type of tower must never be painted B. This type of tower must never be grounded C. This type of tower must not be climbed unless retracted or mechanical safety locking devices have been installed D. All of these choices are correct T0B07 (C) Page 9-20 T0B08 What is considered to be a proper grounding method for a tower? A. A single four-foot ground rod, driven into the ground no more than 12 inches from the base B. A ferrite-core RF choke connected between the tower and ground C. Separate eight-foot long ground rods for each tower leg, bonded to the tower and each other D. A connection between the tower base and a cold water pipe T0B08 (C) Page 9-18 T0B09 Why should you avoid attaching an antenna to a utility pole? A. The antenna will not work properly because of induced voltages T0B09 (C) Page 9-18 B. The utility company will charge you an extra monthly fee C. The antenna could contact high-voltage power lines D. All of these choices are correct T0B10 Which of the following is true when installing grounding conductors used for lightning protection? A. Only non-insulated wire must be used B. Wires must be carefully routed with precise right-angle bends C. Sharp bends must be avoided D. Common grounds must be avoided T0B10 (C) Page 9-5 T0B11 Which of the following establishes grounding requirements for an amateur radio tower or antenna? A. FCC Part 97 Rules B. Local electrical codes C. FAA tower lighting regulations D. UL recommended practices T0B11 (B) Page 9-5 T0B12 Which of the following is good practice when installing ground wires on a tower for lightning protection? A. Put a loop in the ground connection to prevent water damage to the ground system B. Make sure that all bends in the ground wires are clean, right-angle bends C. Ensure that connections are short and direct D. All of these choices are correct T0B12 (C) Page 9-5 T0B13 What is the purpose of a safety wire through a turnbuckle used to tension guy lines? A. Secure the guy if the turnbuckle breaks B. Prevent loosening of the guy line from vibration C. Prevent theft or vandalism D. Deter unauthorized climbing of the tower T0B13 (B) Page 9-18 T0C — RF hazards: radiation exposure; proximity to antennas; recognized safe power levels; exposure to others; radiation types; duty cycle T0C01 What type of radiation are VHF and UHF radio signals? A. Gamma radiation B. Ionizing radiation C. Alpha radiation D. Non-ionizing radiation T0C01 (D) Page 9-11 T0C02 Which of the following frequencies has the lowest value for Maximum T0C02 (B) Page 9-12 Permissible Exposure limit? A. 3.5 MHz B. 50 MHz C. 440 MHz D. 1296 MHz T0C03 What is the maximum power level that an amateur radio station may use at VHF frequencies before an RF exposure evaluation is required? A. 1500 watts PEP transmitter output B. 1 watt forward power C. 50 watts PEP at the antenna D. 50 watts PEP reflected power T0C03 (C) Page 9-14 T0C04 What factors affect the RF exposure of people near an amateur station antenna? A. Frequency and power level of the RF field B. Distance from the antenna to a person C. Radiation pattern of the antenna D. All of these choices are correct T0C04 (D) Page 9-14 T0C05 Why do exposure limits vary with frequency? A. Lower frequency RF fields have more energy than higher frequency fields B. Lower frequency RF fields do not penetrate the human body C. Higher frequency RF fields are transient in nature D. The human body absorbs more RF energy at some frequencies than at others T0C05 (D) Page 9-11 T0C06 Which of the following is an acceptable method to determine that your station complies with FCC RF exposure regulations? A. By calculation based on FCC OET Bulletin 65 B. By calculation based on computer modeling C. By measurement of field strength using calibrated equipment D. All of these choices are correct T0C06 (D) Page 9-14 T0C07 What could happen if a person accidentally touched your antenna while you were transmitting? A. Touching the antenna could cause television interference B. They might receive a painful RF burn C. They might develop radiation poisoning D. All of these choices are correct T0C07 (B) Page 9-11 T0C08 Which of the following actions might amateur operators take to prevent exposure to RF radiation in excess of FCC-supplied limits? A. Relocate antennas B. Relocate the transmitter C. Increase the duty cycle T0C08 (A) Page 9-14 D. All of these choices are correct T0C09 How can you make sure your station stays in compliance with RF safety regulations? A. By informing the FCC of any changes made in your station B. By re-evaluating the station whenever an item of equipment is changed C. By making sure your antennas have low SWR D. All of these choices are correct T0C09 (B) Page 9-14 T0C10 Why is duty cycle one of the factors used to determine safe RF radiation exposure levels? A. It affects the average exposure of people to radiation B. It affects the peak exposure of people to radiation C. It takes into account the antenna feed line loss D. It takes into account the thermal effects of the final amplifier T0C10 (A) Page 9-13 T0C11 What is the definition of duty cycle during the averaging time for RF exposure? A. The difference between the lowest power output and the highest power output of a transmitter B. The difference between the PEP and average power output of a transmitter C. The percentage of time that a transmitter is transmitting D. The percentage of time that a transmitter is not transmitting T0C11 (C) Page 9-13 T0C12 How does RF radiation differ from ionizing radiation (radioactivity)? A. RF radiation does not have sufficient energy to cause genetic damage B. RF radiation can only be detected with an RF dosimeter C. RF radiation is limited in range to a few feet D. RF radiation is perfectly safe T0C12 (A) Page 9-11 T0C13 If the averaging time for exposure is 6 minutes, how much power density is permitted if the signal is present for 3 minutes and absent for 3 minutes rather than being present for the entire 6 minutes? A. 3 times as much B. 1/2 as much C. 2 times as much D. There is no adjustment allowed for shorter exposure times T0C13 (C) Page 9-13

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