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Continuing Education Course #604
NETA Acceptance Testing Specifications
Part II

1. How often should one expect updates to NETA ATS?
 - a. 1 year
 - b. 2 years
 - c. 3 years
 - d. 4 years
2. Where are electrical tests mentioned in paragraph B specifications provided?
 - a. Paragraph A
 - b. Paragraph B
 - c. Paragraph C
 - d. Paragraph D
3. Qualified testing technicians should be Level _____ or higher.
 - a. 2
 - b. 3
 - c. 4
 - d. 5
4. Test equipment should be calibrated within how many months of the testing date?
 - a. 6
 - b. 12
 - c. 24
 - d. Per Manufacturer
5. What does a yellow test decal indicate?
 - a. acceptable for use
 - b. use with caution
 - c. minor deficiency
 - d. do not use
6. What marking is used to indicate optional tests?
 - a. *
 - b. **
 - c. !
 - d. opt
7. A 480 V Step Voltage Regulator should have a dry insulation resistance value of no less than what amount?
 - a. 100 M Ω
 - b. 500 M Ω

- c. 5000 M Ω
 - d. 25000 M Ω
8. A 480 V Step Voltage Regulator winding resistance should differ by no more than how much from factory results?
- a. 2%
 - b. 10% from Highest Value
 - c. 15%
 - d. 50% of Lowest Value
9. What is the maximum error allowed on a turns-ratio test for a Step Voltage Regulator?
- a. 0.5%
 - b. 2.0%
 - c. 10%
 - d. 15%
10. What is the maximum resistance from the grounding electrode to ground for a large commercial system
- a. 1 Ω
 - b. 5 Ω
 - c. 50 M Ω
 - d. 100 M Ω
11. What is the minimum resistance of neutral to ground insulation for a ground protection system?
- a. 0.5 Ω
 - b. 0.5 M Ω
 - c. 1.0 M Ω
 - d. 100 M Ω
12. What voltage is used to test insulation on control winding on 300 V cable?
- a. 300 V
 - b. 450 V
 - c. 500 V
 - d. 600 V
13. A ground fault time delay must operate at less than 150% of the pickup value when the AC control voltage is _____ of nominal.
- a. 15%
 - b. 25%
 - c. 50%
 - d. 55%
14. What is the minimum value of the Polarization Index for an AC Induction Motor?
- a. 1.0
 - b. 1.4
 - c. 1.5
 - d. 2.0
15. What is the name of the insulation test that measures the amount of heat energy lost relative to the total amount of energy in the system?
- a. Dissipation Factor Tip-Up
 - b. Stator Resistance

- c. Surge Comparison
- d. Tan Delta

16. What is the name of the tests that can identify issues with the rotor, air gap, and/or bearings?

- a. Current Signature
- b. Partial Discharge
- c. Surge Test
- d. Withstand

17. What AC voltage drop is allowed from pole to pole in a generator?

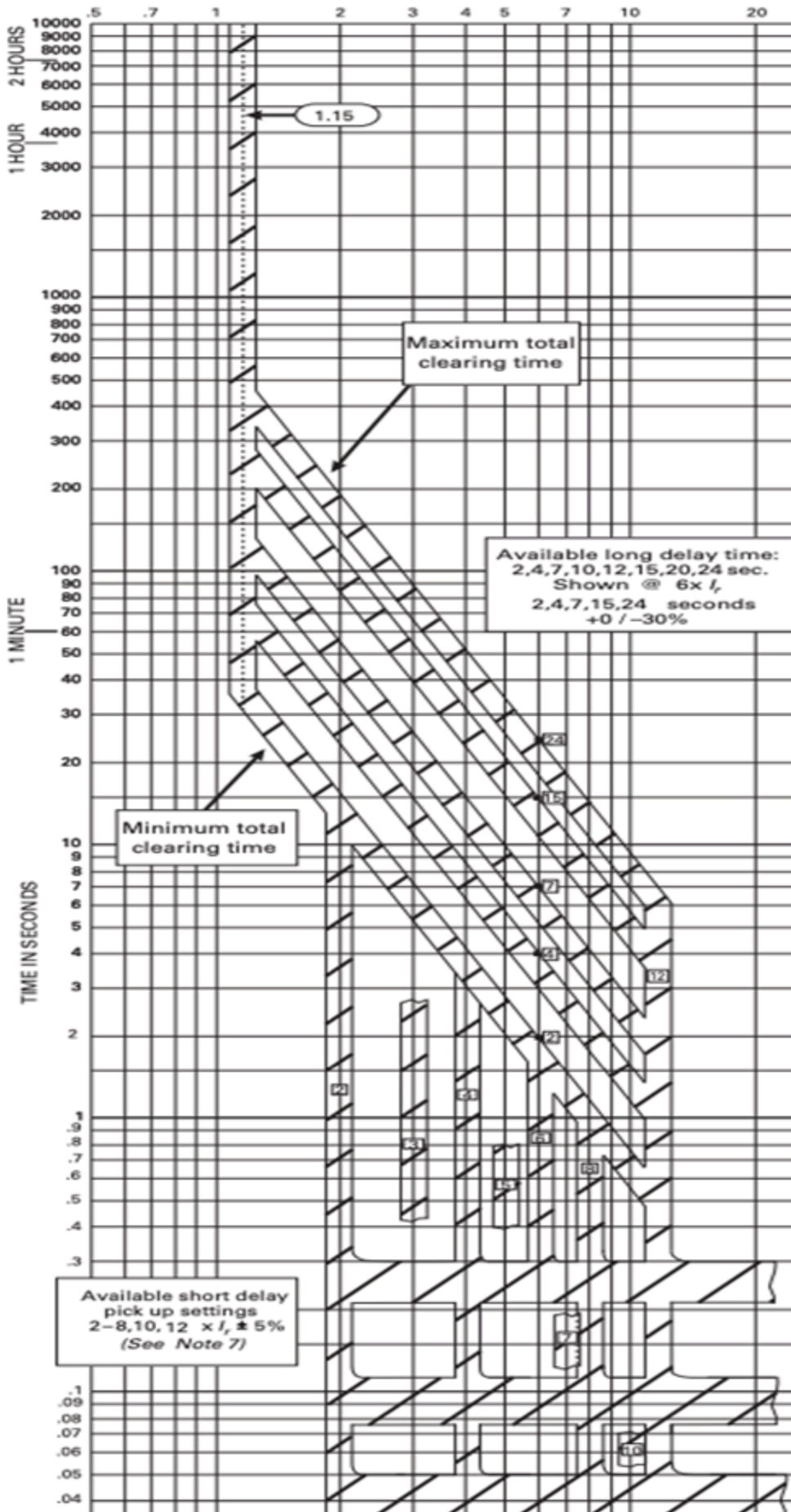
- a. <1.0% from average value
- b. <5.0% from average value
- c. <10% from average value
- d. <15% from variance value

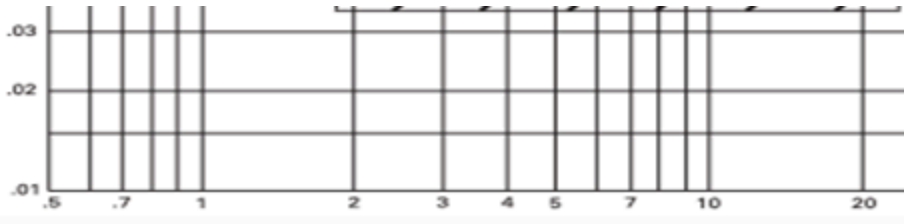
18. What percentage of rated current are motor overloads tested?

- a. 100%
- b. 150%
- c. 200%
- d. 300%

19. What is the approximate slowest tested trip time expected for a set point of 24 s delay for the given curves?

Current in Multiples of (I_r)





- a. 10 s
- b. 25 s
- c. 60 s
- d. 80 s

20. What is the maximum difference between cell voltages for a lead-acid battery with the charger energized and the battery on a float?

- a. 0.5%
- b. 1%
- c. 0.1 V
- d. 0.5 V

21. What discharge time is required for a capacitor rated at 208 V shall reach a maximum of 50 V?

- a. 1 minute
- b. 5 minutes
- c. depends upon device used
- d. depends upon capacitance

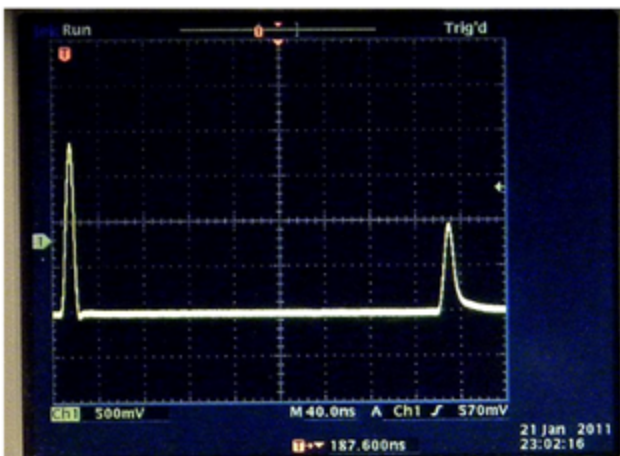
22. The winding resistance on an inductor (reactor) shall be within what percent of factor results?

- a. 1 μ F
- b. 10 μ F
- c. 0.5%
- d. 1.0%

23. What is the minimum Dielectric Absorption Ratio (DAR) for an emergency engine generator?

- a. 0.5
- b. 1.0
- c. 1.4
- d. 2.0

24. What type of termination does this TDR show?



- a. ideal
- b. open
- c. partial
- d. short

25. What is the maximum recommended torque on a 1/2 inch bolt according to NETA?



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- a. 3 lb_f-ft
 - b. 6 lb_f-ft
 - c. 12 lb_f-ft
 - d. 48 lb_f-ft

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