

- a) Provide lightning protection components and system in accordance with NFPA 780 requirements.
- b) System shall have LPI Master Certification.
- c) Copper air terminals shall be used for system.

9) Requirements for lab areas

See room data sheets for UPS and emergency power requirements.

- 1) General
 - a) 20A, 120V duplex receptacle spaced 24" on center at perimeter bench unless otherwise noted
 - b) Electrical equipment and devices shall be appropriate for the hazardous classification/zone of the room
 - c) 20A, 120V plug connected equipment
- 2) District 6-Open Lab
 - a) 60-80 fc (foot-candle) ambient light level
 - b) Floor mounted power required
 - c)
- 3) District 6-Aggregate
 - a) 60-80 fc ambient light level
 - b) Floor mounted power required
 - c)
- 4) District 6-Soils
 - a) 70-80 fc ambient light level
 - b)
 - c) Floor mounted power required
 - d) 220V plug connected equipment
 - e) 208V hardwired equipment
- 5) District 6-Sort/Log
 - a) 60-80 fc ambient light level
 - b) Floor mounted power required
- 6) District 6-Concrete Lab
 - a) 60-80 fc ambient light level
 - b)
 - c) Floor mounted power required
- 7) District 6-Isolation Room-Aggregate
 - a)
- 8) District 6-Isolation Room-Repair
 - a)
 - b) Floor mounted power required
- 9) District 6-Isolation Room-HMA
 - a)
 - b) Floor mounted power required
- 10) District 6-Isolation Room-Soils
 - a) Floor mounted power required

- 11) District 6-Nuclear Storage
 - a)
 - b) 20A, 120V duplex receptacle spaced 24" or 48" on center around perimeter for charging gauges.
- 12) District 6-Nuclear Workstation
 - a) 60-80 fc ambient light level
 - b)
 - c) Floor mounted power required
- 13) District 6-Storage
 - a) 20A, 120V convenience receptacles
 - b) 70-80 fc ambient light level
- 14) District 6-Open HMA Lab
 - a) 60-80 fc ambient light level
 - b)
 - c) Floor mounted power required
 - d) 208V hardwired equipment
 - e) 240V hardwired equipment
 - f) 220V plug connected equipment
- 15) District 6-Hamburg Wheel Area
 - a)
 - b) Floor mounted power required
 - c) 208V hardwired equipment
 - d) 220V plug connected equipment
- 16) District 6- I-Fit Area
 - a) Floor mounted power required
 - b) 208V hardwired equipment
 - c) Island Bench power required
- 17) District 6-Specific Gravity Area
 - a) Floor mounted power required
 - b) 208V hardwired equipment
 - c) Island Bench power required
- 18) District 6-Mixture Prep Area
 - a) Floor mounted power required
 - b) 208V hardwired equipment
 - c) Island Bench power required
- 19) District 6-TSR Area
 - a) Floor mounted power required
 - b) 208V hardwired equipment
 - c) Island Bench power required
- 20) District 6-Sample Staging
 - a) Floor mounted power required
 - b) 208V hardwired equipment
 - c) Island Bench power required
- 21) District 6-HMA Extraction/ Ignition Room

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- a) Floor mounted power required
- b) 208V hardwired equipment
- c) Island Bench power required
- 22) District 6-Calibration/ Repair
 - a) 70-80 fc ambient light level
 - b) Ceiling Mounted power required
- 23) Traffic Instrumentation-Open Lab
 - a) 60-80 fc ambient light level
 - b)**
 - c) Task Lighting Required
- 24) Traffic Instrumentation-Storage
 - a) 60-80 fc ambient light level
- 25) Metals & Misc. Products Lab-Open Lab
 - a) 60-80 fc ambient light level
- 26) Metals & Misc. Products Lab-Metals Lab
 - a) 208V hardwired equipment
 - b) 240V hardwired equipment
 - c) 220V plug connected equipment
 - d) 480V hardwired equipment
- 27) Metals & Misc. Products Lab-Metals Lab- Sort/Log
 - a) 20A, 120V convenience receptacles
 - b) Power for computer stations required
- 28) Metals & Misc. Products Lab-Failed Storage
 - a) 20A, 120V convenience receptacles
 - b) 208V hardwired equipment
- 29) Metals & Misc. Products Lab-Miscellaneous Products Lab
 - a) 60-80 fc ambient light level
 - b) 208V hardwired equipment
 - c) 240V hardwired equipment
 - d) 220V plug connected equipment
 - e) 480V hardwired equipment
- 30) Metals & Misc. Products Lab-Machine Shop
 - a) 60-80 fc ambient light level
 - b) 208V hardwired equipment
 - c) 240V hardwired equipment
 - d) 220V plug connected equipment
 - e) 480V hardwired equipment
- 31) Metals & Misc. Products Lab-Pipe Storage and Cutting
 - a) 60-80 fc ambient light level
 - b) 208V hardwired equipment
 - c) 240V hardwired equipment
 - d) 220V plug connected equipment
 - e) 480V hardwired equipment
- 32) Nuclear-Diagnostics/Shop

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- a) 60-80 fc (foot-candle) ambient light level
- b) Task Lighting required
- 33) Nuclear-Hot Room
 - a) 60-80 fc (foot-candle) ambient light level
 - b) Task Lighting required
- 34) Nuclear-Storage
 - a) 20A, 120V convenience receptacles
- 35) Nuclear-Calibration Lab
 - a) 60-80 fc (foot-candle) ambient light level
 - b) Task Lighting Required
 - c)
 - d) Floor mounted power required
- 36) Concrete-Open Lab
 - a) 60-80 fc Direct/ Indirect light level
 - b) 70-80 fc Task Lighting Required
 - c)
 - d) 208V power required
 - e)
- 37) Concrete-Mixing
 - a) UPS power required
 - b) 208V power required
 - c)
 - d) Island Bench power required
- 38) Concrete-Casting/Molding
 - a) 60-80 fc ambient light level
 - b) Task Lighting Required
 - c)
 - d) 208V, 480V power required
 - e)
 - f) Island Bench power required
- 39) Concrete-Curling Compound
 - a) 60-80 fc ambient light level
 - b) Emergency power required
 - c) Task lighting required
 - d)
 - e) 208V, 480V required
 - f) 208V plug connected equipment
- 40) Concrete-Compression/Flexural Testing
 - a) 60-80 fc ambient light level
 - b)
 - c) 208V power required
 - d)
- 41) Concrete-Sample Receiving
 - a) 60-80 fc ambient light level

- b) Task Lighting required
- c)
- d)
- 42) Concrete-Sorting and Logging
 - a) 60-80 fc ambient light level
 - b) 208V power required
- 43) Concrete-Polymer Concrete Testing
 - a) 60-80 fc ambient light level
 - b)
 - c)
 - d) 208V power required
- 44) Concrete-Salt Scale
 - a) 60-80 fc ambient light level
 - b)
 - c)
 - d) 208V, 480V power required
- 45) Concrete-Moist/Cure Area
 - a) 60-80 fc ambient light level
 - b) UPS power required
 - c)
 - d)
 - e) Task lighting (waterproof type) required
- 46) Concrete-Utility Room for Moist
 - a) 60-80 fc ambient light level
 - b) Task lighting required
 - c)
 - d)
 - e) 208V, 480V power required
- 47) Concrete-Freeze/Thaw Testing
 - a) 60-80 fc ambient light level
 - b) Task lighting required
 - c)
 - d) 208V, 480V required
- 48) Concrete-Tool Storage
 - a) 60-80 fc ambient light level
- 49) Cement-Open Lab
 - a) 60-80 fc ambient light level
 - b)
 - c) Floor mounted power required
- 50) Cement-Moist
 - a)
 - b) 208V power required
 - c) Ceiling Mounted power required
- 51) Cement-Air Permeability

- a)
 - b) 208V power required
 - c) Floor mounted power required
 - d) 60-80 fc ambient light level
- 52) Soils-Open Lab
- a)
 - b) Floor mounted power required
 - c) 70-80 fc ambient light level
- 53) Soils – Breakdown Room
- a)
 - b) Floor mounted power required
 - c) 70-80 fc ambient light level
- 54) Soils – EFA Room
- a)
 - b) Floor mounted power required
 - c) 240V plug load required
 - d) Ceiling mounted power required
 - e) 208V power required
 - f) 70-80 fc ambient light level
- 55) Soils-Open Lab – Vibratory Lab
- a)
 - b) Floor mounted power required
 - c) 70-80 fc ambient light level
 - d) 208V Power required
- 56) Chemistry Lab – Instrument Lab
- a)
 - b) Floor mounted power required
 - c) 208V power required
 - d) Task lighting required
- 57) Chemistry Lab – Sample Prep Lab
- a) Convenience receptacles required
- 58) Chemistry Lab – Instrument Support
- a) Convenience receptacles required
- 59) Chemistry Lab – Bituminous Lab (QC)
- a) Task Lighting required
 - b)
 - c) Floor mounted power required
 - d) 208V, 480V power required
 - e) Island Bench power required
- 60) Chemistry Lab – Bituminous Lab (QC)-Sort/Log
- a)
 - b) Floor mounted power required
- 61) Chemistry Lab – Bituminous Lab (QC)-Prep Area
- a) Perimeter receptacles required

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- 62) Chemistry Lab – Bituminous Lab (QC)-Hot Pour Sealer
 - a)
 - b) Floor mounted power required
 - c) 208V power required
 - d) Task lighting required
- 63) Chemistry Lab – Bituminous Lab (QC)-Emulsified Asphalt
 - a)
 - b) Floor mounted power required
 - c) Task lighting required
- 64) Chemistry Lab – Bituminous Lab (QC)-Cutback Testing
 - a)
 - b) Floor mounted power required
 - c) Task lighting required
- 65) Chemistry Lab – Bituminous Lab (QC)-PG Asphalt
 - a)
 - b) Floor mounted power required
 - c) 208V power required
- 66) Chemistry Lab – Bituminous Lab (QC)-Sample Storage
 - a)
 - b) Floor mounted power required
- 67) Chemistry Lab – Bituminous Lab (QC)-Naphtha Bath
 - a)
 - b) Floor mounted power required
 - c) Task Lighting required
- 68) Chemistry Lab – Analytical Lab
 - a) Floor mounted power required
 - b) 208V power required
 - c) Task lighting required
 - d) Island Bench power required
- 69) Chemistry Lab – Analytical Lab-Sort/Log
 - a)
 - b) Floor mounted power required
- 70) Chemistry Lab – Analytical Lab-Cementitious
 - a)
 - b) Floor mounted power required
 - c) Task lighting required
 - d) 208V Power required
- 71) Chemistry Lab – Analytical Lab-Paint Testing
 - a)
 - b) Floor mounted power required
- 72) Chemistry Lab – Analytical Lab-Weather Lab
 - a)
 - b) Floor mounted power required
- 73) Chemistry Lab – Analytical Lab-Photometric Lab

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- a)
- b) Floor mounted power required
- 74) Chemistry Lab – Analytical Lab-Salt Lab
 - a)
 - b) Floor mounted power required
- 75) Chemistry Lab – Analytical Lab-Thermoplastic
 - a)
 - b) Floor mounted power required
- 76) Chemistry Lab – Chemistry Storage (Shared)
 - a) Perimeter receptacles required
- 77) Chemistry Lab – PPE Storage-Shared
 - a) Floor mounted power required
- 78) Chemistry Lab – Cylinder Storage (Shared)
 - a) Perimeter receptacles required at 24" on center
- 79) Hot Mix Asphalt – HMA Open Lab
 - a)
 - b) Ceiling (reels) power required
 - c) 208V power required
 - d) 60-70 fc ambient light level
- 80) Hot Mix Asphalt – Compact Mix and Loose Mix
 - a)
 - b) Ceiling (reels) power required
 - c) Island bench power required
 - d) 208V power required
- 81) Hot Mix Asphalt – Ovens
 - a)
 - b) Floor mounted power required
 - c) 208V power required
 - d) 60-80 fc ambient light level
- 82) Hot Mix Asphalt – Compaction/Mixing/Splitting
 - a)
 - b) Floor mounted power required
 - c) Island bench power required
 - d) 60-80 fc ambient light level
- 83) Hot Mix Asphalt – Testing-Microsurfacing/Instrument
 - a)
 - b) Ceiling (reels) power required
 - c) Island bench power required
 - d) 208V power required
 - e) 60-80 fc ambient light level
- 84) Hot Mix Asphalt – Receiving-Logging/Storage
 - a) 60-70 fc ambient light level
 - b) Island Bench power required with power cord reels
- 85) Hot Mix Asphalt – Loose Aggregate Sizing/Cutting

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- a) Ceiling (reels) power required
 - b) Island Bench power required with power cord reels
 - c) 60-70 fc ambient light level
- 86) Hot Mix Asphalt – Extraction
- a)
 - b) Ceiling (reels) power required
 - c) Island Bench power required with power cord reels
 - d) 208V power required
 - e) 60-80 fc ambient light level
- 87) Hot Mix Asphalt – Release Agent
- a)
 - b) Ceiling (reels) power required
 - c) Island Bench power required with power cord reels
 - d) 208V power required
 - e) 60-80 fc ambient light level
- 88) Aggregate – Staging
- a)
 - b) Floor mounted power required
 - c) Task lighting required
 - d) Zoned lighting required
- 89) Aggregate – Breakdown Room
- a)
 - b) Floor mounted power required
 - c) 208, 220, 230/450 and 480V power required
 - d) Zoned lighting required
- 90) Aggregate – Specific Gravity (SPG)
- a)
 - b) Floor mounted power required
 - c) 208 and 480V power required
 - d) Zoned lighting required
- 91) Aggregate – Open Lab
- a)
 - b) Floor mounted power required
 - c) 208 and 480V power required
 - d) Dimmed lighting required
- 92) Aggregate –LA Abrasions
- a)
 - b) Floor mounted power required
 - c) 208 and 230V power required
 - d) Task lighting required
- 93) Aggregate – Open Lab 1 – Prep Area
- a)
 - b) Floor mounted power required
 - c) Dimmed lighting required

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- 94) Aggregate – Open Lab 1 – Micro Deval
 - a)
 - b) Floor mounted power required
 - c) Dimmed lighting required
- 95) Aggregate – Open Lab 1 – Wash/ Oven
 - a)
 - b) Floor mounted power required
 - c) 208V Power Required
 - d) Dimmed lighting required
- 96) Aggregate – Open Lab 1 – Soundness Test
 - a)
 - b) Floor mounted power required
 - c) 208V Power Required
 - d) Task lighting required
- 97) Aggregate – Moisture Room
 - a)
 - b) Floor mounted power required
 - c) 208V Power Required
 - d) Task lighting required
- 98) Aggregate – Count Lab
 - a)
 - b) Floor mounted power required
 - c) 208 and 480V power required
 - d) Task lighting required
 - e) Zoned lighting required
- 99) Aggregate – AIMS
 - a)
 - b) Floor mounted power required
 - c) Zoned lighting required
- 100) Aggregate – Deleterious Count
 - a)
 - b) Floor mounted power required
 - c) 208V power required
 - d) Zoned lighting required
- 101) Aggregate – Heavy Media
 - a)
 - b) Floor mounted power required
 - c) 208V, 480V power required
 - d) Zoned lighting required