Major building works – Overview of updates – Tranche 4 - 2023

Updated work sections

Updates have been rolled out for the second tranche of updated worksections for the specifications for Major Building Works.

The following worksections have been updated:

- 32 General Electrical Requirements
- 33 Wiring and Accessories
- 34 Generators
- 35 Liquid Fuels
- 36 Photovoltaic Installations
- 37 Uninterruptible Power Supply (UPS)
- 38 Switchboards
- 39 Luminaires 397
- 40 Communications
- 41 Master Antenna TV
- 42 Fire Detection
- 43 Lightning and Surge Protection
- 44 Electronic Security and Access Control
- 69 Referenced Documents

FEEDBACK; If you have any suggestions for improvement, such as additional or modified text for the Master Specification for Major Building Works, please contact the Manager Specification Services, e- mail to specification.services@nt.gov.au

Updates

Page 1 of 5

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- References to BCA changed to NCC.
- Minor editorial changes to clarify requirements, and to update URLs.

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DIPL Internal worksection reference number	CLAUSE	ΤΟΡΙϹ	CHANGE	
32		GENERAL ELECTRICAL REQUIREMENTS		
			Minor editorial changes.	
	#.2	Quality	Approval also required for generator and for fuel installation contractor	
	#.3	Inspection	Additions to list of inspections	
	#.4.1	Contractor's submissions – Shop drawings	Emergency lighting deleted. Fuel system, generator schematic, room layout added.	
	#.4.4	Contractor's submissions – Product data	Additional items in list	



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33		WIRING AND ACCESSORIES	
00			Minor editorial changes.
			Minor changes to clarify requirements.
	#.1.2	Standards	Two NEMA Standards added to list
	#.2.3	Contractor's submissions – Protection grading study	Clarification on when this is required.
	#.3.1	Wiring system installation – Installation methods	Deep wall boxes specified for outlets with USB socket or data socket
	#.4.4	Power cables – Support of fire resisting cables	Fire resistant support systems and accessories specified
	#.6.1	Wiring enclosures and cable support - Conduits	Requirements for UV exposed conduits made explicit
	#.7.4	Metallic conduits and fittings – Galvanized water pipe	Sub-clause deleted
;	#.8.3	Non-metallic conduits and fittings – Conduits in slabs	High compression corrugated conduit deleted – Light duty rigid PVC specified
	#.10.1	Cable supports – General requirements	New sub-clause
	#.10.4	Cable supports – Cable baskets	Requirements for cuts made explicit
	#.10.5	Cable supports – Cable trays	Requirements made explicit
	#.10.7	Cable supports – Single spine cable baskets, trays or ladders	Requirements made explicit
	#.10.8	Cable supports – Fixing to building structure	Requirements made explicit
	#.10.9	Cable supports – Access	Requirements made explicit
	#.10.12	Cable supports – Cable protection	Requirements made explicit
	#.12.2	Underground cables - Trenches	Requirements made explicit
	#.15.2	Accessories – Lighting and socket outlet switches	Inductive and fluorescent lighting loads deleted – LED lighting loads added
	#.15.9	Accessories – Ceiling sweep fans	Stainless steel for outdoor fans specified
34		GENERATORS	
			Minor editorial changes.
	#.2.2	Contractor's submissions – Products and materials	Requirements for generators and for spare parts and servicing made explicit
	#.4.3	Products - Engines	Local test switch specified for building load tests. Engine specifications expanded.
	#.4.8	Products - Batteries and chargers – Starting batteries	AGM batteries specified
	#.6.1	Completion – Pre-commissioning tests	Operational trial time and power settings changed

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35		LIQUID FUELS	
			Minor editorial changes.
	#.1	General	Requirement to keep paths of travel for
			people clear of obstructions made explicit
	#.3.1	Service tanks / day tanks -	Overflow drainage, ventilation, and
		Construction Service tanks / day tanks –	monitoring equipment specified
	#.3.3	Collection trays	Leak detection specified
	#.5.5	Fuel pumps – Drip tray	Leak detection specified
	#.11.6	Piping and accessories - Underground piping	Bedding and backfill material specified
	#.14	Fuel transfer and fuel polishing equipment	Requirements made explicit
36		PHOTOVOLTAIC INSTALLATIONS	
			Minor editorial changes.
#	#.1.4	General – System components	Charge controller added to list
	#.2.4	Contractor submissions – Technical data	Changed to Hold Point. Extra items added to list. One item expanded.
	#.4.3	Photovoltaic module – PV Module	New sub-clause name. Efficiency requirement changed. Warranted output added.
37		UNINTERRUPTIBLE POWER SUPPLY (UPS)	
			Minor editorial changes.
38		SWITCHBOARDS	
			Minor editorial changes.
			New citations of Australian Standards
	#.3.4	Contractor's submissions – Product	Requirement for data to be submitted as
		data for proprietary assemblies	shop drawings
	#.3.6	Contractor's submissions –	New information on when required and
		Protection grading study	qualifications author must have
	#.6.7	Custom built switchboards - Separation	Form 4a added as an option
	#.6.8	Custom built switchboards – Spare	Percentage spare space increased and
		facilities	made uniform for all 3 items – now 30%
	#.6.12		Additional spatial requirements for large
		Custom built switchboards - Layout	mains cables highlighted. Fused switch units deleted from list of
	#6.07	Custom built switchboards Dears	mounting heights.
	#.6.27	Custom built switchboards - Doors Custom built switchboards –	Removable panels option available. Requirements for surge protection devices
	#.6.29	Escutcheon plates	added

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	#.6.31	Custom built switchboards – Name plate labelling	New sub-clause
	#.11.13	Conductors for switchboards - Terminations	Terminals and busbars to be separated.
39		LUMINAIRES	
			Minor editorial changes.
	#.1.2	General - Standards	Standards related to fluorescent lighting deleted
	#.2.3	Contractor's submissions - Samples	RFT author must select Required or Not required
	#.2.4	Contractor's submissions – Data sheets	New sub-clause - Data sheets separated from samples
	#.4	Fluorescent lamps	Clause deleted
	#.5	Fluorescent lamp ballasts	Clause deleted
	#.5.2	LED luminaires	Efficacy increased to 100 lumens/watt or greater
	#.5.3	LED lamp replacement modules	Reference to fluorescent lamps deleted
	#.8.1	Lighting control - Requirement	Motion sensors to be Dual Technology
	#.8.3	Lighting control – Digital control system	RFT author must select Required or Not required
	#.8.4	Lighting control – Remote monitoring	RFT author must select Required or Not required
	#.9.3	Accessories – Lighting switches	Reference to fluorescent lamp deleted
	#.9.9	Accessories – Motion detector switches	Dual technology specified – PIR deleted
	#.11.3	Supports – Surface mounted luminaires	Fluorescent deleted
10			
40		COMMUNICATIONS	
			Minor editorial changes.
	#.7.2	Cables – Horizontal cable	U/FTP specified
	#.9	Telecommunications outlets	Deep wall boxes specified for masonry walls
	#.10.6	Execution – Cable installation	Standard applicable and support specified. Each loom to have 24 cables or less.
41		MASTER ANTENNA TV	
			Minor editorial changes.
42		FIRE DETECTION	
			Minor editorial changes. Changes to some terms. Some text added for clarity and to make requirements explicit.

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	#.1.4	Requirement	Certification requirements made explicit	
	#.1.5	Co-ordination of works	New clause. Contractor's obligation to co- ordinate all works made explicit	
	#.5	Alarm Signalling Equipment	New clause	
	#.23	Block Diagram	NTFRS NTFAST approval required.	
	#.25	MASD	New Witness Point	
	#.26.1	Commissioning Tests	New Witness Point	
	#.26.3	Commissioning – Hot smoke tests	New Hold Point. New Witness Point.	
43		LIGHTNING AND SURGE PROTECTION		
			Minor editorial changes.	
	#.3.4	Lightning protection products - Downconductors	Strong preference for copper strip/cable independent downconductors. Use of slab reinforcement steel deleted.	
	#.4.5	Lightning protection installation - Downconductors	Strong preference for copper strip/cable independent downconductors. Use of slab reinforcement steel deleted.	
	#.6.1	Surge protection devices - General	Status indicators to be visible	
44		ELECTRONIC SECURITY AND ACCESS CONTROL		
			Minor editorial changes.	
			New citations of Australian Standards	
69		REFERENCED DOCUMENTS		
			References updated	