

August 2022

## OVERVIEW OF UPDATES – TRANCHE 1 - 2022

### MAJOR BUILDING WORKS SPECIFICATION

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

The following worksections have been updated:

- 01 General Requirements
- 02 Demolition
- 12 Insulation, Sarking, and Pliable Membranes
- 29 Sanitary Services
- 30 Water
- 32 General Electrical Requirements
- 46 Mechanical Systems
- 47 Mechanical Equipment
- 50 Cooling Towers
- 51 Ductwork
- 52 Ductwork Insulation
- 55 Mechanical Pipework Insulation
- 58 Mechanical Commissioning

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](mailto:specification.services@nt.gov.au)

#### UPDATES

<ul style="list-style-type: none"> <li>• All updated worksections have Australian Standards etc, and Definitions, presented in tables.</li> <li>• References to the National Construction Code are to the 2019 edition until the 2022 edition is adopted in the Northern Territory, unless a different edition is explicitly cited.</li> <li>• References to BCA changed to NCC.</li> </ul>			
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DIPL Internal worksection reference number	CLAUSE	TOPIC	CHANGE
<b>01</b>		<b>GENERAL REQUIREMENTS</b>	
		General - Standards etc, and definitions	Now in tables
<b>02</b>		<b>DEMOLITION</b>	
	#.1.2	General - Standard	Now in table
<b>12</b>		<b>INSULATION, SARKING, AND PLIABLE MEMBRANES</b>	
	#.1.2	General - Standards etc, and definitions	Now in tables
	#.3.1	Materials and components – Bulk thermal insulation	DIPL Sustainability Minimum Design Standard (DIPL MDS) cited for specification of roof insulation
	#.6.1	Schedule – Roof thermal insulation	Guide note differentiates between vapour barrier and thermal insulation

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<b>29</b>		<b>SANITARY SERVICES</b>	
	#.1.2	General - Standards etc	Now in table
<b>30</b>		<b>WATER</b>	
	#.1.2	General - Standards etc	Now in table
	#.4.1	Contractor's submissions – Work as executed drawings	Required information about pumps made explicit.
<b>32</b>		<b>GENERAL ELECTRICAL REQUIREMENTS</b>	
	#.1.2	General - Standards etc	Now in table
	#.8.5	Installation - Building penetrations	BCA reference changed to NCC.
	#.9.2	Identification - Labelling	Requirements for schedules and labels made explicit
	#.10.4	Operation and maintenance manuals - Contents	Requirements for lighting controls functional description made explicit. Requirement to provide switchboard and distribution board circuit schedules added.
	#.13.10	Testing and commissioning – Lighting system tests	New clause
	#.13.11	Testing and commissioning – Electrical sub-metering system tests	New clause
<b>46</b>		<b>MECHANICAL SYSTEMS</b>	
	#.1	General	Compliance with NCC Volume 1 Part J5 mandated
	#.1.2	General - Standards etc	Now in table
	#.2.4	General client requirements – Energy efficiency	Empirical ratings deleted, performance requirement added.
	#.2.6	General client requirements – Component plant energy efficiency	Empirical ratings deleted, requirements of NCC and DIPL MDS added.
	#.2.7	General client requirements – Energy monitoring	Empirical ratings deleted, requirements of DIPL MDS added.
	#.3	General mechanical air handling system description	Requirement to comply with DIPL MDS added.
	#.4.2	Design – Outdoor design conditions	Reference to schedule deleted. Requirement to comply with DIPL MDS added.
	#.4.3	Design – Indoor design conditions	Requirement to comply with DIPL MDS added.
<b>47</b>		<b>MECHANICAL EQUIPMENT</b>	
	#.1.2	General - Standards etc	Now in table

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<b>50</b>		<b>COOLING TOWERS</b>	
	#.1	General	Reference to BCA replaced with NCC
	#.1.2	General - Standards etc	Now in table
	#.8.10	Fans – Maximum fan motor power – cooling tower, closed circuit cooler and evaporative condensers table	Conformance to NCC Volume 1 Part J5 mandated
<b>51</b>		<b>DUCTWORK</b>	
	#.1.2	General - Standards etc	Now in table
	#.2.1	Responsibilities – design and construct	DIPL Sustainability Minimum Design Standard (DIPL MDS) for Mechanical Services cited.
	#.21.1	Access doors - Construction	BCA reference changed to NCC. NCC 2022 cited.
<b>51</b>		<b>DUCTWORK INSULATION</b>	
	#.1.2	General - Standards etc	Now in table
	#.1.3	General - Definitions	Reference to NCC 2019 or NCC 2022
	#.4.2	Products – Ductwork and fittings – minimum insulation material R-value	Table deleted. NCC cited.
<b>55</b>		<b>MECHANICAL PIPEWORK INSULATION</b>	
	#.1.2	General - Standards etc	Now in table
	#.1.3	General - Definitions	Reference to NCC 2019 or NCC 2022
	#.4.1	Insulation performance - Piping – Minimum insulation material R-value	Table deleted. NCC cited.
<b>58</b>		<b>MECHANICAL COMMISSIONING</b>	
	#.1.2	General - Standards etc	Now in table
	#.1.3	General – Definitions etc	Now in table
	#.10.1	Air balancing - General	Requirements related to index outlet, and leakage detection, made explicit
	#.10.5	Air balancing – Preparation for air balancing	No sharp bends or crushing in flexible duct
	#.10.7	Air balancing – On completion of air balancing	Add details to as-built documentation
	#.13.1	Motorised damper leakage - Testing	Clear labelling mandated
	#.14	Air balance reports	Report to include commissioned position of the balancing damper. Report to include identification of the index grille/outlet on the fan system.
	#.17.4	Water balancing – Preparation for water balancing	Requirements for pipe insulation checking, and valve visibility and labelling
	#.17.6	Water balancing - Completion	Information required on as-built documentation

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	#.18	Heating and cooling valve leakage	Cooling added to clause
	#.18.1	Heating and cooling valve leakage - Testing	Cooling added to clause
	#.20	Water balance reports	Identification of the index coil or terminal on the system added.
	#.21.1	Automatic controls - General	Additional requirements added
	#.21.2	Automatic controls – Sensor calibration	Additional requirements added
	#.23	Maintenance access	New clause

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