Route Access Standard Appendix B Train Numbering

Applicability

ARTC Network Wide
SMS

Publication Requirement

Internal & External

Primary Source

Document Status

Version #	Date Reviewed	Prepared by	Reviewed by	Endorsed	Approved
1.4	7 Nov 23	Operations Standards	Stakeholders	Operations Standards Manager	Head of Operations Standards 10/11/2023

Amendment Record

Amendments to the RAS are published at the following link
https://www.artc.com.au/customers/standards/route/access/
All changes in this document are highlighted with this colour

1   Train Number Convention ARTC

1.1   Train Numbering

Train Numbering is updated and maintained on the ARTC website, covering the whole network.

ARTC owns and issues train numbers for the ARTC Network.

1.1.1   Freight and Passenger (Defined Interstate Rail Network)

CHARACTER	DESCRIPTION
NAAN	**First character – The day of the week on which the train departs**
	1 = Sunday 5 = Thursday 2 = Monday 6 = Friday 3 = Tuesday 7 = Saturday 4 = Wednesday
N**A**AN	**Second character – The city, location or region in which the train commenced**
	A = Adelaide N = Newcastle B = Brisbane O = Fisherman Islands C = Junee/Cootamundra/Griffith P = Perth D = Darwin Q = Moree F = Mudgee/Dubbo/Cowra R = Port Pirie G = Parkes S = Sydney H = Hunter Valley T = Taree – Murwillumbah J = Victoria North East U = Broken Hill K = Victoria North West V = Goulburn/Moss Vale/Canberra L = Alice Springs W = NSW South Coast M = Melbourne X = Spencer Jct./Port Augusta Y = Whyalla
NA**A**N	**Third character – The city, location or region in which the train will finish its journey**
	A = Adelaide N = Newcastle B = Brisbane O = Fisherman Islands C = Junee/Cootamundra/Griffith P = Perth D = Darwin Q = Moree F = Mudgee/Dubbo/Cowra R = Port Pirie G = Parkes S = Sydney H = Hunter Valley T = Taree – Murwillumbah J = Victoria North East U = Broken Hill K = Victoria North West V = Goulburn/Moss Vale/Canberra L = Alice Springs W = NSW South Coast M = Melbourne X = Spencer Jct./Port Augusta Y = Whyalla
NAA**N**	**Fourth character – General guide to the sequential order of departure from the originating station** 0-9 Note: The numeral eight shall be used for passenger services only.

1.1.2 Coal (Hunter Valley Network New South Wales)

CHARACTER	DESCRIPTION
AANNN	**First and second characters – Load/unload point describers**

AH = Ashton	MN = Mangoola
AS = Austar	MO = Mt Owen
AT = Mac Generation Antiene	MP = Mt Pleasant
BC = Bulga Coal	MR = Moolarben
BE = Boggabri Coal Terminal East	MT = Mt Thorley Bin 2
BF = Bloomfield	MW = Warkworth Bin 2
BG = Bengalla	NA = Donaldson/Bloomfield
BO = Boggabri Coal Loading Loop	NB = Narrabri
BR = RN + RC Tandem	ND = Newdell
BW = Mt Arthur	NM = Macquarie Generation
CW - Camberwell	NW = Newstan
DK = Dartbrook	PW = Port Waratah
DR = Drayton	RB = Muswellbrook
DS = Donaldson/Bloomfield	RN = Rixs Creek Nth
DU = Duralie	RC = Rixs Creek
EH = Emerald Hill	RV = Ravensworth
ER = Eraring	SF = Stratford
GD = Gunnedah	TB = Teralba
GR = Greta Train Facility	UL = Ulan
HV = Hunter Valley	VP = Vales Point
JU = Wambo/United	WC = Werris Creek
JW = Wambo/Jerry Plains	WG = Wilpinjong
LD = Liddell	WH = Whitehaven
LG = Lithgow	WK = Warkworth Bin 1
MB = Maules Creek	WS = Walsh Point

CHARACTER	DESCRIPTION
AA**NN**N	**Third and fourth characters – Sequential order of daily departure from the originating location**

100, 200 and 300 series	For services from Hunter terminals (excluding NCIG) to the Hunter Valley and return
400 Series	Refer to Sydney Trains TOC Manual for information.
500 series	For Gunnedah Basin services
600 series	For North Coast services
700 series	For Macquarie Generation services
800 series	Refer to Sydney Trains TOC Manual for information.
900 series	All services unloading at for NCIG and originating from any Hunter Valley or Gunnedah Basin load point.

CHARACTER	DESCRIPTION
AANN**N**	**Fifth character – Loaded status** Odd numbers = Empty train Even numbers = Loaded coal train

1.1.3   Coal (South and West New South Wales)

(Also applies to Services operating between Inner Harbour and Hunter)

CHARACTER	DESCRIPTION	
AANN	**First and second characters – Coal loading point**	
	AR = Airly	LS = Lidsdale
	BB = Baal Bone	LG = Lithgow
	CA = Clarence	MC = Metropolitan Colliery
	CB = Charbon	TM = Tahmoor Colliery
	CG = Cringilla BHP	
	GL = Glenlee Colliery	
	IH = Inner Harbour	
AA**NN**	**Third and fourth characters – Sequential order of daily departure from the originating location**	
	From 0001 to 0600	Train numbers between 00 and 25
	From 0601 to 1200	Train numbers between 26 and 50
	From 1201 to 1800	Train numbers between 51 and 75
	From 1801 to 2400	Train numbers between 76 and 99
AAN**N**	**Fourth character – Loaded status** Odd numbers = Empty train Even numbers = Loaded coal train	

1.1.4 Intrastate Network

1.1.4.1 New South Wales Intrastate Trains

CHARACTER	DESCRIPTION
NNNN	**First character – The district in which the train commenced** Refer to ARTC train numbering district map. 1 = Sydney (Refer to ST) 6 = Grafton 2 = Goulburn 7 = Lithgow – Merrygoen 3 = Junee 8 = Orange 4 = Newcastle (Refer to ST) 9 = Illawarra 5 = Werris Creek
N**N**NN	**Second character – The district in which the train will finish its journey** Refer to ARTC train numbering district map. 1 = Sydney (Refer to ST) 6 = Grafton 2 = Goulburn 7 = Lithgow – Merrygoen 3 = Junee 8 = Orange 4 = Newcastle (Refer to ST) 9 = Illawarra 5 = Werris Creek
NN**N**N	**Third character – Any odd or even number not already used** *Note: The third character may be aligned with the Operator code assigned by Sydney Trains for trains entering the Sydney Trains area.*
NNN**N**	**Fourth character** Odd numbers = Down trains, away from Sydney Even numbers = Up trains, towards Sydney

1.1.4.2 Trip Trains New South Wales

For Trip Train Numbering Allocations please refer to Sydney Trains Numbering Principles.

1.1.4.3 Victorian Intrastate Trains

CHARACTER	DESCRIPTION
NNNNA	**First character – The district in which the train commenced** Refer to ARTC train numbering district map.

1-4	Not ARTC Network
5	Metropolitan broad gauge
6	Allocated to North East (standard gauge) (Melbourne – Albury, Benalla – Oaklands)
7	Allocated to Western (standard gauge) (Melbourne – Wolseley, Maroona – Portland)
9	Metropolitan standard gauge

CHARACTER	DESCRIPTION
N**N**NNA	**Second character – The district in which the train will finish its journey** Refer to ARTC train numbering district map.

1-4	Not ARTC Network
5	Metropolitan broad gauge
6	Allocated to North East (standard gauge) (Melbourne – Albury, Benalla – Oaklands)
7	Allocated to Western (standard gauge) (Melbourne – Wolseley, Maroona – Portland)
9	Metropolitan standard gauge

CHARACTER	DESCRIPTION
NN**N**NA	**Third character – Any odd or even number not already used**
NNN**N**A	**Fourth character** Odd numbers = Down trains, away from Melbourne Even numbers = Up trains, towards Melbourne
NNNN**A**	**Fifth character** V = Operating within Victoria

1.1.4.4   South Australia Intrastate Trains

CHARACTER	DESCRIPTION
NNNNA	**First character – The district in which the train commenced**

Refer to ARTC train numbering district map.

1	Dry Creek to Keswick, Pelican Point
2	Beyond Keswick to SA border with Victoria
3	All branch lines south of the Broken Hill line
4	Beyond Dry Creek to Port Augusta, Port Pirie, Spencer Junction
5	Crystal Brook East Junction to Broken Hill
6	Beyond Spencer Junction to Whyalla
7	All branch lines north of the Broken Hill line and east of the Darwin line
8	Beyond Spencer Junction to SA border on line to Perth
9	Beyond Tarcoola to SA border on line to Darwin

CHARACTER	DESCRIPTION
N**N**NNA	**Second character – District in which the train will finish its journey**

Refer to ARTC train numbering district map.

1	Dry Creek to Keswick, Pelican Point (Adelaide metropolitan area)
2	Beyond Keswick to SA border with Victoria
3	All branch lines south of the Broken Hill line
4	Beyond Dry Creek to Port Augusta, Port Pirie, Spencer Junction
5	Crystal Brook East Junction to Broken Hill
6	Beyond Spencer Junction to Whyalla
7	All branch lines north of the Broken Hill line and east of the Darwin line
8	Beyond Spencer Junction to SA border on line to Perth
9	Beyond Tarcoola to SA border on line to Darwin

CHARACTER	DESCRIPTION
NN**N**NA	**Third character – Any odd or even number not already used**
NNN**N**A	**Fourth character**
	Odd numbers = Down trains, away from Adelaide
	Even numbers = Up trains, towards Adelaide
NNNN**A**	**Fifth character**
	S = Operating within South Australia

1.1.5 Passenger Trains

Note: For CityRail services, refer to Sydney Trains.

CHARACTER	DESCRIPTION
AANN	**First character – Direction** S = South N = North W = West C = Illawarra
A**A**NN	**Second character – Train type or motive power** E = Trains hauled by electric traction within the electrified area L = Trains hauled by diesel locomotives N = Endeavour trains P = Explorer trains R = Diesel multiple unit trains and rail motors S = Trains hauled by steam locomotives (special working) T = XPT trains
AA**N**N	**Third character – Trains operating between the areas of:** South S-1 – ST Network and Goulburn S-2 – ST Network and south of Goulburn S-3 – ST Network and Canberra S-4 – Branches south of Goulburn West W-1 – ST Network and Orange W-2 – ST Network and Dubbo/Cobar W-3 – ST Network and Parkes W-4 – ST Network and Broken Hill North N-1 – Used by ST N-2 – ST Network and Armidale N-3 – ST Network and North Coast Branches N-4 – ST Network and Moree Illawarra C-1 – Used by ST C-2 – Used by ST C-3 – Used by ST Suburban area (bounded by Berowra, Emu Plains, Macarthur and Helensburg) - Refer to ST
AAN**N**	**Fourth character** Odd numbers = Down train, Even numbers = Up train

1.1.6 Light Locomotives

A light locomotive can either run alone, or in association with a particular train.

1.1.6.1 New South Wales Light Locomotives

CHARACTER	DESCRIPTION
ADDD	**First character – Locomotive type** D = Diesel Locomotive X = Electric Locomotive* ** Light locomotive movements comprising mixed locomotives that include ELECTRIC locomotive(s) are to use the letter 'X' to avoid the possibility of electric locomotive being turned onto unwired roads, or sections of track from which the current has been removed. This will apply with the pantographs in the raised or lowered positions.*
A**D**DD	**Second character – The district from which the locomotive originated or in which it runs** Refer to ARTC train numbering district map. 1 = Sydney (Refer to ST) 6 = Grafton 2 = Goulburn 7 = Lithgow – Merrygoen 3 = Junee 8 = Orange 4 = Newcastle (Refer to ST) 9 = Illawarra 5 = Werris Creek
AD**D**D	**Third character – Any odd or even number not already used** *Note: The third character may be aligned with the Operator code assigned by Sydney Trains for trains entering the Sydney Trains Network.*
ADD**D**	**Fourth character** Odd numbers = Down trains, away from Sydney Even numbers = Up trains, towards Sydney

1.1.6.2 Victoria Light Locomotives

CHARACTER	DESCRIPTION
ADDDA	**First character – Locomotive type** D = Locomotive
A**D**DDA	**Second character – Identifies the district from which the locomotive originated or in which it runs** Refer to ARTC train numbering district map.

1-4	Not ARTC Network
5	Metropolitan broad gauge
6	Allocated to North East (standard gauge) (Melbourne – Albury, Benalla – Oaklands)
7	Allocated to Western (standard gauge) (Melbourne – Wolseley, Maroona – Portland)
9	Metropolitan standard gauge

CHARACTER	DESCRIPTION
AD**D**DA	**Third character – Any odd or even number not already used**
ADD**D**A	**Fourth character** Odd numbers = Down trains, away from Melbourne Even numbers = Up trains, towards Melbourne
ADDD**A**	**Fifth character** V = Operating within Victoria

1.1.6.3   South Australia Light Locomotives

CHARACTER	DESCRIPTION
ADDDA	**First character – Locomotive type** D = Locomotive
A**D**DDA	**Second character – Identifies the district from which the locomotive originated or in which it runs** Refer to ARTC train numbering district map.

1	Dry Creek to Keswick, Pelican Point (Adelaide metropolitan area)
2	Beyond Keswick to SA border with Victoria
3	All branch lines south of the Broken Hill line
4	Beyond Dry Creek to Port Augusta, Port Pirie, Spencer Junction
5	Crystal Brook East Junction to Broken Hill
6	Beyond Spencer Junction to Whyalla
7	All branch lines north of the Broken Hill line and east of the Darwin line
8	Beyond Spencer Junction to SA border on line to Perth
9	Beyond Tarcoola to SA border on line to Darwin

CHARACTER	DESCRIPTION
AD**D**DA	**Third character – Any odd or even number not already used**
ADD**D**A	**Fourth character** Odd numbers = Down trains, away from Adelaide Even numbers = Up trains, towards Adelaide
ADDD**A**	**Fifth character** S = Operating within South Australia

1.1.7   Maintenance Trains

Any maintenance train that crosses a state border to work uses the numbering system of the state in which it is working.

Example: If a train leaves South Australia to work in Victoria, it shall have a Victorian number. If the train returns to South Australia, it shall have a South Australian number for its return journey.

On the rare occasion a train is working on both sides of a border, the number shall be based on the originating state.

1.1.7.1   New South Wales Maintenance Trains

CHARACTER	DESCRIPTION
NANN	**First character – Work district** Refer to ARTC train numbering district map. 1 = Sydney 6 = Grafton 2 = Goulburn 7 = Lithgow – Merrygoen 3 = Junee 8 = Orange 4 = Newcastle (Refer to ST) 9 = Illawarra 5 = Werris Creek
N**A**NN	**Second character** M = Maintenance Train
NA**N**N	**Third character – Identified specific type of train** 1 = Not used 7 = Track maintenance vehicles/rail grinders[1] 2 = Ballast train 8 = Test vehicles[1] 3 = Ballast train 9 = Herbicide 4 = Rail train 0 = Not used 5 = Sleeper train 6 = Spare *1. To operate under block working conditions unless classified to reliably operate track circuits.*
NAN**N**	**Fourth character** Odd numbers = Down trains, away from Sydney Even numbers = Up trains, towards Sydney *Note: Where possible, numbers should be in sequential order of departure from the originating location.*

1.1.7.2   Sydney Metro Freight Network Maintenance Trains

Any Sydney Trains Maintenance Train will operate under Sydney Trains Numbering   Principles. Any ARTC Maintenance Train will operate under ARTC Numbering Principles

1.1.7.3 Victoria Maintenance Trains

CHARACTER	DESCRIPTION
NANNA	**First character – Work district** Refer to ARTC train numbering district map.

1-4	Not ARTC Network
5	Metropolitan broad gauge
6	Allocated to North East (standard gauge) (Melbourne – Albury, Benalla – Oaklands)
7	Allocated to Western (standard gauge) (Melbourne – Wolseley, Maroona – Portland)
9	Metropolitan standard gauge

CHARACTER	DESCRIPTION
N**A**NNA	**Second character** M = Maintenance train
NA**N**NA	**Third character – Identified specific type of train** 1 = Not used 2 = Ballast train 3 = Ballast train 4 = Rail train 5 = Sleeper train 6 = Spare 7 = Track maintenance vehicles/rail grinders[1] 8 = Test vehicles[1] 9 = Herbicide 0 = Not used *1. To operate under block working conditions unless classified to reliably operate track circuits.*
NAN**N**A	**Fourth character** Odd numbers = Down trains, away from Melbourne Even numbers = Up trains, towards Melbourne *Note: Where possible, numbers should be in sequential order of departure from the originating location.*
NANN**A**	**Fifth character** V = Operating within Victoria

1.1.7.4   South Australia Maintenance Trains

CHARACTER	DESCRIPTION
NANNA	**First character – Work district**

Refer to ARTC train numbering district map.

1	Dry Creek to Keswick, Pelican Point (Adelaide metropolitan area)
2	Beyond Keswick to SA border with Victoria
3	All branch lines south of the Broken Hill line
4	Beyond Dry Creek to Port Augusta, Port Pirie, Spencer Junction
5	Crystal Brook East Junction to Broken Hill
6	Beyond Spencer Junction to Whyalla
7	All branch lines north of the Broken Hill line and east of the Darwin line
8	Beyond Spencer Junction to SA border on line to Perth
9	Beyond Tarcoola to SA border on line to Darwin

N**A**NNA	**Second character**
	M = Maintenance train
NA**N**NA	**Third character – Identified specific type of train**

1 = Not used

2 = Ballast train

3 = Ballast train

4 = Rail train

5 = Sleeper train

6 = Spare

7 = Track maintenance vehicles/rail grinders[1]

8 = Test vehicles[1]

9 = Herbicide

0 = Not used

1. To operate under block working conditions unless classified to reliably operate track circuits.

NAN**N**A	**Fourth character**

Odd numbers = Down trains, away from Adelaide

Even numbers = Up trains, towards Adelaide

Note: Where possible, numbers should be in sequential order of departure from the originating location.

NANN**A**	**Fifth character**

S = Operating within South Australia

1.1.8   AK Track Recording Car

CHARACTER	DESCRIPTION	
AANN	**First character – Identifies the region**	
	W = NSW Western Region	M = Victoria
	N = NSW Northern Region (including the north coast, north west and Hunter Valley)	A = South Australia
		P = Western Australia
	S = NSW Southern Region	D = Northern Territory
	C = NSW Illawarra Region	B = Queensland
A**A**NN	**Second character – Identifies the cars**	
	K = AK Car	
AA**N**N	**Third character – Identifies specific type of train and working**	
	8 = AK Car – Diesel Loco – non-block working	
AAN**N**	**Fourth character – Identifies direction**	
	0-9 indicating up or down trains.	
	Odd numbers = down trains	
	Even numbers = up trains	

1.1.9   Heritage Operators

1.1.9.1   Passenger Trains – Heritage Operator Tours

CHARACTER	DESCRIPTION
NANN	**First character – Operator** 5--- 3801 Limited 6--- NSW Rail Transport Museum 7--- Rail Motor Society 8--- Lachlan Valley Railway Cowra 9--- Sydney Rail Services
N**A**NN	**Second character – Train type or motive power** -E-- Trains hauled by electric locomotives within the electrified area -L-- Trains hauled by diesel locomotives -J-- Single unit diesel cars / rail motors -R-- Diesel multiple unit trains and (multiple unit) rail motors -S-- Trains hauled by steam locomotives
NA**N**N	**Third character – 0-9**
NAN**N**	**Fourth character - 0-9** Odd numbers = Down trains Even numbers = Up trains

.

1.1.9.2   Light Locomotives

CHARACTER	DESCRIPTION
NANN	**First character – Operator**
	5--- 3801 Limited
	6--- NSW Rail Transport Museum
	7--- Rail Motor Society
	8--- Lachlan Valley Railway Cowra
	9--- ARHS (ACT Division)
N**A**NN	**Second character – Locomotive type**
	-Z-- Steam
	-D-- Diesel
NA**N**N	**Third character – 0-9**
NAN**N**	**Fourth character - 0-9**
	Odd numbers = Down trains
	Even numbers = Up trains

Figure 1.1 – Train Numbering

Figure 1.1 – Train Numbering