

**Pacific National Pty Ltd**

**Environmental Protection Licence 21364**

**Annual Rolling Stock Performance Report**

1 January 2022 – 31 December 2022

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## 1. Annual Rolling Stock Report

Pacific National Pty Ltd (PN), is the holder of Environmental Protection Licence 21364 (EPL).

In accordance with **Condition R4.2**, PN is required to submit an Annual Rolling Stock Report (the Report) to the NSW Environment Protection Authority (EPA) by 28 February each year for the previous calendar year reporting period.

This Annual report is for the reporting period **1 January 2022 to 31 December 2022**.

Requirements for this Report are listed in **Table 1**.

**Table 1: Condition R 4.2: Annual Rolling Stock Report**

No.	Requirement	Location in Report
<b>R4.2</b>	The licensee must submit to the EPA no later than 28 February of each year an Annual Rolling Stock Performance report for the previous calendar year (1 January to 31 December). The report must include:	
<b>a</b>	the number of the licensee's locomotives that underwent a Major Engine Overhaul in the calendar year and, for each locomotive:	Section 2
<b>i</b>	<i>the unique identification number of the locomotive;</i>	Table 2 Appendix A Sheet 1
<b>ii</b>	<i>details of the class, type/model, the engine manufacturer and engine model; and</i>	Table 2 Appendix A Sheet 1
<b>iii</b>	<i>the date of the Major Engine Overhaul.</i>	Table 2 Appendix A Sheet 1
<b>b</b>	details of all locomotives identified under Condition M5.3(e) and a summary of the noise mitigation measures in the plan of management required by Condition M5.3(e) that were undertaken and completed during the calendar year, if any.	Section 2 Table 2 Appendix A Sheet 1
<b>c</b>	details of any unacceptable Angle of Attack event identified for a freight wagon of a priority wagon class within the meaning of this licence during the calendar year for the purposes of Condition M5.2. These details must include:	Section 2
<b>i</b>	<i>the unique identification number of each freight wagon involved and the time and date of any unacceptable Angle of Attack event at a Wayside Monitoring System location;</i>	Appendix A Sheet 2 Column B

No.	Requirement	Location in Report
ii	<i>whether the freight wagon identified under Condition R4.2(c)(i) has been rectified in accordance with Condition U5 of this licence, or when rectification is scheduled to occur for the identified freight wagon; and,</i>	Appendix A Sheet 3 Column H
iii	<i>where a freight wagon of a priority wagon class that has been subject to rectification under Condition U5 has recorded an unacceptable Angle of Attack, the additional measures to ensure the wagon has an acceptable Angle of Attack and timeframes for implementation of those measures.</i>	Appendix A Sheet 3 Column J
d	the number of freight wagons of a priority wagon class that underwent rectification under Condition U5 during the reporting period and for each freight wagon:	
i	<i>the unique identification number of the freight wagon;</i>	Appendix A Sheet 3 Column B
ii	<i>details of the class of the freight wagon; and</i>	Appendix A Sheet 3 Column A
iii	<i>a summary of the corrective measures undertaken to rectify the freight wagon, including the date of freight wagon rectification.</i>	Appendix A Section 5.2

## 2. Major Engine Overhaul

A locomotive Major Engine Overhaul (MEO) is defined as per the Stock Licence Dictionary of EPL 21364 as either:

*A scheduled maintenance procedure that either replaces or inspects and qualifies each and every power assembly of the locomotive engine.*

*A major engine overhaul will not include unscheduled maintenance to replace these components due to unforeseen failure of engine component(s) prior to scheduled maintenance;*

**or**

*Installation of a remanufactured or freshly manufactured engine into an existing locomotive.*

**Table 2** below provides an overview of locomotives which underwent major engine overhauls during the 2022 reporting period (**Appendix A**, Sheet A). Sixty-one locomotives have undergone MEO during the 2022 reporting period.

### 3. Locomotive Noise Testing

#### 3.1. EPA Consultation – August 2022

In August 2022 PN met with the EPA to present changes to the locomotive noise testing methodology aimed at expediting locomotive noise testing. The presentation described:

- The PN approach to noise testing to date – competent acoustic practitioners (SLR) at sites meeting AS2377 strict geographic requirements;
- An outcome of a review of SLR data and reports by Acoustic Studios;
- The intention to use local technicians, trained and audited by competent acoustic practitioners for future noise testing.

The proposed testing strategy was also captured in subsequent correspondence to the EPA<sup>1</sup>.

PN is currently implementing this strategy, whilst continuing to carry out noise testing under previously established agreements with SLR.

#### 3.2. Locomotive Noise Testing – 2022 Results

**Table 2 and Appendix A Sheet 1** lists those locomotives overhauled during the 2022 reporting period along with the status of noise testing.

PN has undertaken 41 locomotive noise tests during the 2022 reporting period that include both locomotives overhauled during the 2022 reporting period and previous reporting periods, since commencement of the EPL – 15 noise assessments have been completed on locomotives overhauled during the 2022 reporting period.

Twenty-six locomotives noise tested comply with the noise limits defined in Clause L3.5 and L3.6 of the EPL (excluding negligible tonality identified in individual tests). Locomotives exceeding noise limits prescribed in the EPL during testing cover a variety of different locomotive classes and engine manufacturers. In relation to condition M5.3(e) of the EPL, during the August 2022 presentation to the EPA (See section 3.1), PN proposed a fleet-wide locomotive class management plan which has been adopted. The approach involves keeping a watching brief to ensure that Z-weighted noise levels at idle do not increase and that the current low levels of A-weighted noise levels are maintained.

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<sup>1</sup> Letter correspondence from PN to the EPA dated 29th September 2022 provided a summary of Pacific National's presentation to the EPA on the 25th August 2022 and documentation of the planned changes to PN's In Service Locomotive Noise Testing Program as required under sM5.3 of the EPL.

**Table 2: Locomotive Major Engine Overhauls for Reporting Period**

Loco Id	Locomotive Class	Engine Manufacturer	Engine Model	Date of Overhaul	Noise testing undertaken (Y/N)
8174	81	EMD	16-645E3B Turbo	30/12/2022	Y
8218	82	EMD	12-710G3A	21/12/2022	N
NR120	NR	GE	7FDL-16 Dash-9 NR	20/12/2022	N
NR054	NR	GE	7FDL-16 Dash-9 NR	16/12/2022	N
LDP005	LDP	EMD	16-710G3C	16/12/2022	N
TT01	TT	EMD	16-710G3C-ES2	16/12/2022	Y
8237	82	EMD	12-710G3A	12/12/2022	N
9309	93	GE	7FDL-16 C44ACi-AU	5/12/2022	N
NR019	NR	GE	7FDL-16 Dash-9 NR	2/12/2022	N
9022	90	EMD	16-710G3A	22/11/2022	Y
NR067	NR	GE	7FDL-16 Dash-9 NR	18/11/2022	N
8235	82	EMD	12-710G3A	16/11/2022	N
8103	81	EMD	16-645E3B Turbo	1/11/2022	N
NR013	NR	GE	7FDL-16 Dash-9 NR	31/10/2022	N
NR048	NR	GE	7FDL-16 Dash-9 NR	21/10/2022	N
NR050	NR	GE	7FDL-16 Dash-9 NR	11/10/2022	N
LDP009	LDP	EMD	16-710G3C	7/10/2022	N
9304	93	GE	7FDL-16 C44ACi-AU	27/09/2022	N
NR096	NR	GE	7FDL-16 Dash-9 NR	27/09/2022	N
NR046	NR	GE	7FDL-16 Dash-9 NR	14/09/2022	N
8216	82	EMD	12-710G3A	13/09/2022	N
NR043	NR	GE	7FDL-16 Dash-9 NR	31/08/2022	N
NR066	NR	GE	7FDL-16 Dash-9 NR	29/08/2022	N
8137	81	EMD	16-645E3B Turbo	23/08/2022	N
8210	82	EMD	12-710G3A	22/08/2022	N
9005	90	EMD	16-710G3A	22/08/2022	Y
NR053	NR	GE	7FDL-16 Dash-9 NR	12/08/2022	N
NR076	NR	GE	7FDL-16 Dash-9 NR	8/08/2022	Y
NR030	NR	GE	7FDL-16 Dash-9 NR	29/07/2022	N
9306	93	GE	7FDL-16 C44ACi-AU	26/07/2022	N
NR029	NR	GE	7FDL-16 Dash-9 NR	15/07/2022	N
8217	82	EMD	12-710G3A	14/07/2022	N
NR059	NR	GE	7FDL-16 Dash-9 NR	7/07/2022	N
NR001	NR	GE	7FDL-16 Dash-9 NR	1/07/2022	N
8110	81	EMD	16-645E3B Turbo	30/06/2022	Y
LDP003	LDP	EMD	16-710G3C	28/06/2022	Y
TT132	TT	EMD	16-710G3C-ES2	21/06/2022	Y
9303	93	GE	7FDL-16 C44ACi-AU	20/06/2022	N
NR089	NR	GE	7FDL-16 Dash-9 NR	17/06/2022	N
8215	82	EMD	12-710G3A	3/06/2022	N

Loco Id	Locomotive Class	Engine Manufacturer	Engine Model	Date of Overhaul	Noise testing undertaken (Y/N)
NR058	NR	GE	7FDL-16 Dash-9 NR	3/06/2022	N
9016	90	EMD	16-710G3A	3/06/2022	Y
NR009	NR	GE	7FDL-16 Dash-9 NR	23/05/2022	N
NR040	NR	GE	7FDL-16 Dash-9 NR	18/05/2022	N
9301	93	GE	7FDL-16 C44ACi-AU	27/04/2022	N
8201	82	EMD	12-710G3A	27/04/2022	N
8149	81	EMD	16-645E3B Turbo	14/04/2022	Y
NR004	NR	GE	7FDL-16 Dash-9 NR	12/04/2022	Y
NR088	NR	GE	7FDL-16 Dash-9 NR	5/04/2022	N
NR044	NR	GE	7FDL-16 Dash-9 NR	28/03/2022	N
8226	82	EMD	12-710G3A	15/03/2022	N
NR070	NR	GE	7FDL-16 Dash-9 NR	11/03/2022	N
NR077	NR	GE	7FDL-16 Dash-9 NR	11/03/2022	N
9302	93	GE	7FDL-16 C44ACi-AU	28/02/2022	N
NR083	NR	GE	7FDL-16 Dash-9 NR	25/02/2022	N
NR081	NR	GE	7FDL-16 Dash-9 NR	21/02/2022	N
NR056	NR	GE	7FDL-16 Dash-9 NR	7/02/2022	Y
NR115	NR	GE	7FDL-16 Dash-9 NR	3/02/2022	Y
8207	82	EMD	12-710G3A	1/02/2022	Y
NR035	NR	GE	7FDL-16 Dash-9 NR	20/01/2022	Y
NR085	NR	GE	7FDL-16 Dash-9 NR	19/01/2022	N

## 4. Angle of Attack 2022 Data

Priority Wagon Classes are defined as:

*a class of freight wagons, as identified to the licensee by Transport for NSW, requiring rectification in accordance with Transport for NSW's standard titled THR RS 00400 ST RSU 400 Series – Minimum Operating Standards for Rolling Stock – Freight Vehicle Specific Interface Requirements Version 2.0 Issued date: 24 August 2017,*

**and**

*being one of the following priority wagon classes: RKWY, RQCY, VQCY, RKFX, RRY, CQWY, RKMY, RKKY, RKBY, RRY, RKCX, RKHF, VQTY, RQTY, PBGY, ABSY, CQJY, CQGY, CQYY, CQEY, CQPY.*

For the 2022 reporting period **Appendix A** summarises the Angle of Attack (AoA) events and wheel recitation status for identified priority wagons.

- Angle of Attack exceedance data as provided by Transport for NSW (TfNSW) is provided in **Appendix A, Sheet 4** and **Sheet 5**.
- The priority wagon AoA exceedance data set is provided as **Appendix A** (Sheet 2).
- The rectification status of the priority wagons is detailed in **Column H** of **Appendix A** (Sheet 3).

## 5. Wagon Rectification

### 5.1. EPA Consultation – June / October 2022

In June 2022 PN met with the EPA and TfNSW to discuss the approach to Clause U5.1 of the EPL and difficulties meeting the timeline for rectification. In October 2022 PN provided the EPA with a project plan and timeline to address AoA exceedances of priority wagons. In February 2023 PN received a letter of support for this strategy from the EPA<sup>2</sup>.

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<sup>2</sup> Correspondence from the EPA dated 6 February 2023 provided support for PN's wheel squeal rectification strategy for priority wagons. Additional reporting requirements stipulated in the letter include:

- Annual updates of the roll-out forecast as part of the Annual Performance report.
- Updated forecasting information is required to be provided in May 2023.
- A report on the results of the Continuous Improvement Program is to be provided on or before 5 July 2025.



## 5.2. Wagon rectifications

PN has adopted a bogie type response to AoA exceedances rather than a focus on individual wagons or wagon classes. During 2022, the primary focus of the wheel squeal rectification program was for validation of modifications of several test wagons running on the network.

Modifications implemented to rectify wagons are based on bogie type and are:

- Ride Control Bogies – Alternate / Stiffer control springs plus alternate centre bowl liners
- Barber bogies – Friction (Split) wedges
- Selected bogies – bolster resizing to control lateral movement of friction wedges

A total of 58 wagons have been modified since the inception of the Wheel Squeal Research program in 2014. During the 2022 reporting period, 17 bogies were modified with the above treatments, dependent on bogie type: Seven wagons have had repeat exceedances at the monitoring station at Beecroft since modification was implemented; All wagons exceeding AoA criteria post modification are of the RKWY priority class. During consultation with the EPA in June 2022 the EPA acknowledged the step change improvement in AoA performance modified RKWY wagons and supported PN's rectification program.

If you have any questions in relation to this report, please do not hesitate to me.

Regards,



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## **Appendix A: Annual Rolling Stock Performance Data**

**Locomotives Undergoing Major Engine Overhaul  
Reporting Period 1 January - 31 December 2022**

Loco Id	Locomotive Class	Engine Manufacturer	Engine Model	Date of Overhaul	Noise testing undertaken (Y/N)	Date of Noise Testing
8174	81	EMD	16-645E3B Turbo	30/12/2022	Y	30/12/2022
8218	82	EMD	12-710G3A	21/12/2022	N	
NR120	NR	GE	7FDL-16 Dash-9 NR	20/12/2022	N	
NR054	NR	GE	7FDL-16 Dash-9 NR	16/12/2022	N	
LDP005	LDP	EMD	16-710G3C	16/12/2022	N	
TT01	TT	EMD	16-710G3C-ES2	16/12/2022	Y	15/12/2023
8237	82	EMD	12-710G3A	12/12/2022	N	
9309	93	GE	7FDL-16 C44ACi-AU	5/12/2022	N	
NR019	NR	GE	7FDL-16 Dash-9 NR	2/12/2022	N	
9022	90	EMD	16-710G3A	22/11/2022	Y	16/01/2023
NR067	NR	GE	7FDL-16 Dash-9 NR	18/11/2022	N	
8235	82	EMD	12-710G3A	16/11/2022	N	
8103	81	EMD	16-645E3B Turbo	1/11/2022	N	
NR013	NR	GE	7FDL-16 Dash-9 NR	31/10/2022	N	
NR048	NR	GE	7FDL-16 Dash-9 NR	21/10/2022	N	
NR050	NR	GE	7FDL-16 Dash-9 NR	11/10/2022	N	
LDP009	LDP	EMD	16-710G3C	7/10/2022	N	
9304	93	GE	7FDL-16 C44ACi-AU	27/09/2022	N	
NR096	NR	GE	7FDL-16 Dash-9 NR	27/09/2022	N	
NR046	NR	GE	7FDL-16 Dash-9 NR	14/09/2022	N	
8216	82	EMD	12-710G3A	13/09/2022	N	
NR043	NR	GE	7FDL-16 Dash-9 NR	31/08/2022	N	
NR066	NR	GE	7FDL-16 Dash-9 NR	29/08/2022	N	
8137	81	EMD	16-645E3B Turbo	23/08/2022	N	
8210	82	EMD	12-710G3A	22/08/2022	N	
9005	90	EMD	16-710G3A	22/08/2022	Y	23/12/2022
NR053	NR	GE	7FDL-16 Dash-9 NR	12/08/2022	N	
NR076	NR	GE	7FDL-16 Dash-9 NR	8/08/2022	Y	11/08/2022
NR030	NR	GE	7FDL-16 Dash-9 NR	29/07/2022	N	
9306	93	GE	7FDL-16 C44ACi-AU	26/07/2022	N	
NR029	NR	GE	7FDL-16 Dash-9 NR	15/07/2022	N	
8217	82	EMD	12-710G3A	14/07/2022	N	
NR059	NR	GE	7FDL-16 Dash-9 NR	7/07/2022	N	
NR001	NR	GE	7FDL-16 Dash-9 NR	1/07/2022	N	

8110	81	EMD	16-645E3B Turbo	30/06/2022	Y	27/06/2022
LDP003	LDP	EMD	16-710G3C	28/06/2022	Y	1/07/2022
TT132	TT	EMD	16-710G3C-ES2	21/06/2022	Y	21/06/2022
9303	93	GE	7FDL-16 C44ACi-AU	20/06/2022	N	
NR089	NR	GE	7FDL-16 Dash-9 NR	17/06/2022	N	
8215	82	EMD	12-710G3A	3/06/2022	N	
NR058	NR	GE	7FDL-16 Dash-9 NR	3/06/2022	N	
9016	90	EMD	16-710G3A	3/06/2022	Y	6/06/2022
NR009	NR	GE	7FDL-16 Dash-9 NR	23/05/2022	N	
NR040	NR	GE	7FDL-16 Dash-9 NR	18/05/2022	N	
9301	93	GE	7FDL-16 C44ACi-AU	27/04/2022	N	
8201	82	EMD	12-710G3A	27/04/2022	N	
8149	81	EMD	16-645E3B Turbo	14/04/2022	Y	8/07/2022
NR004	NR	GE	7FDL-16 Dash-9 NR	12/04/2022	Y	13/04/2022
NR088	NR	GE	7FDL-16 Dash-9 NR	5/04/2022	N	
NR044	NR	GE	7FDL-16 Dash-9 NR	28/03/2022	N	
8226	82	EMD	12-710G3A	15/03/2022	N	
NR070	NR	GE	7FDL-16 Dash-9 NR	11/03/2022	N	
NR077	NR	GE	7FDL-16 Dash-9 NR	11/03/2022	N	
9302	93	GE	7FDL-16 C44ACi-AU	28/02/2022	N	
NR083	NR	GE	7FDL-16 Dash-9 NR	25/02/2022	N	
NR081	NR	GE	7FDL-16 Dash-9 NR	21/02/2022	N	
NR056	NR	GE	7FDL-16 Dash-9 NR	7/02/2022	Y	9/02/2022
NR115	NR	GE	7FDL-16 Dash-9 NR	3/02/2022	Y	12/02/2022
8207	82	EMD	12-710G3A	1/02/2022	Y	8/07/2022
NR035	NR	GE	7FDL-16 Dash-9 NR	20/01/2022	Y	30/03/2022
NR085	NR	GE	7FDL-16 Dash-9 NR	19/01/2022	N	

## Wagon rectification

Wagon Class	Unique Wagon List	Bogie Type	Rectified Wagon (Y/N)	Date of rectification	Exceedence Post rectification (*)
CQEY	CQEY 000201	#N/A	N	Leased Wagons-CRAWFORDS	
CQEY	CQEY 000202	#N/A	N	Leased Wagons-CRAWFORDS	
CQEY	CQEY 000203	#N/A	N	Leased Wagons-CRAWFORDS	
CQEY	CQEY 000206	#N/A	N	Leased Wagons-CRAWFORDS	
CQEY	CQEY 000207	#N/A	N	Leased Wagons-CRAWFORDS	
CQEY	CQEY 000209	#N/A	N	Leased Wagons-CRAWFORDS	
CQEY	CQEY 000210	#N/A	N	Leased Wagons-CRAWFORDS	
CQEY	CQEY 000211	#N/A	N	Leased Wagons-CRAWFORDS	
CQEY	CQEY 000213	#N/A	N	Leased Wagons - CWLTL-LOG	
CQEY	CQEY 000218	#N/A	N	Leased Wagons - TOLL1	
CQEY	CQEY 000219	#N/A	N	Leased Wagons-CRAWFORDS	
CQEY	CQEY 000220	#N/A	N	Leased Wagons - CWLTL-LOG	
CQGY	CQGY 000521	70 T RideControl	N	Pending Maintenance Schedules and Supply Chain	
CQGY	CQGY 000526	70 T RideControl	N	Pending Maintenance Schedules and Supply Chain	
CQGY	CQGY 000529	70 T RideControl	N	Pending Maintenance Schedules and Supply Chain	
CQGY	CQGY 000531	70 T RideControl	N	Pending Maintenance Schedules and Supply Chain	
CQGY	CQGY 000548	70 T RideControl	N	Pending Maintenance Schedules and Supply Chain	
CQGY	CQGY 000562	70 T RideControl	N	Pending Maintenance Schedules and Supply Chain	
CQGY	CQGY 000568	70 T RideControl	N	Pending Maintenance Schedules and Supply Chain	
CQGY	CQGY 000572	70 T RideControl	N	Pending Maintenance Schedules and Supply Chain	
CQWY	CQWY 005003	70 T RideControl	N	Pending Maintenance Schedules and Supply Chain	
CQWY	CQWY 005007	70 T RideControl	N	Pending Maintenance Schedules and Supply Chain	
CQWY	CQWY 005008	70 T RideControl	N	Pending Maintenance Schedules and Supply Chain	
CQWY	CQWY 005009	70 T RideControl	N	Pending Maintenance Schedules and Supply Chain	
CQWY	CQWY 005010	70 T RideControl	N	Pending Maintenance Schedules and Supply Chain	













RKWY	RKWY 002141	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002154	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002270	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002271	70T Barber or Ride Control	Y	29/03/2018	*
RKWY	RKWY 002278	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002281	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002284	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002289	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002302	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002328	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002333	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002514	70T Barber or Ride Control	Y	10/03/2021	*
RKWY	RKWY 002515	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002534	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002542	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002550	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002561	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002565	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002568	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002613	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002616	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002618	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002634	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002646	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002647	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002844	70T Barber or Ride Control	Y	17/05/2022	
RKWY	RKWY 002854	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002856	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002866	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002869	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002871	70T Barber or Ride Control	Y	17/06/2014	*
RKWY	RKWY 002872	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002875	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002891	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 002919	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	



RKWY	RKWY 004064	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 004065	70T Barber or Ride Control	Y	28/03/2014	*
RKWY	RKWY 004067	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 004071	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 004077	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 004080	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 004081	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 004085	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 004087	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 004089	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 004107	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 004113	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 004118	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 004124	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY `004133	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 004146	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 004156	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 004166	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 004171	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RKWY	RKWY 004178	70T Barber or Ride Control	Y	17/08/2019	*
RKWY	RKWY 004194	70T Barber or Ride Control	Y	16/06/2021	*
RKWY	RKWY 004197	70T Barber or Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000004	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000025	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000047	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000681	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000687	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000701	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000703	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000722	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000731	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000739	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000748	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000753	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000784	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	

RQCY	RQCY 000785	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000793	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000810	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000840	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000847	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000863	50T Ride Control	Y		17/05/2022
RQCY	RQCY 000884	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000888	50T Ride Control	Y		29/04/2022
RQCY	RQCY 000912	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000923	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000957	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000968	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000987	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000988	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000989	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000990	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000991	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000992	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 000996	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 001002	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 001004	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 001005	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 001007	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQCY	RQCY 001009	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQTY	RQTY 000007	70T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQTY	RQTY 000009	70T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQTY	RQTY 000012	70T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQTY	RQTY 000016	70T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQTY	RQTY 000026	70T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQTY	RQTY 000037	70T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQTY	RQTY 000045	70T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQTY	RQTY 000046	70T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQTY	RQTY 000059	70T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQTY	RQTY 000062	70T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
RQTY	RQTY 000538	70T Ride Control	N	Pending Maintenance Schedules and Supply Chain	







VQCY	VQCY 000576	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000608	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000609	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000611	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000613	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000624	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000653	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000660	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000665	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000672	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000676	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000718	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000720	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000725	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000735	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000736	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000738	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000744	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000745	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000746	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000751	50T Ride Control	Y		21/07/2022
VQCY	VQCY 000764	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000772	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000790	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000797	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000801	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000815	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000816	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000818	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000820	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000821	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000822	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000825	50T Ride Control	Y		14/06/2022
VQCY	VQCY 000829	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
VQCY	VQCY 000836	50T Ride Control	N	Pending Maintenance Schedules and Supply Chain	



VQTY	VQTY 000930	70T Ride Control	N	Pending Maintenance Schedules and Supply Chain	
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