

Notice Type: Train Operating Conditions (TOC) Waiver

Subject Title: Operation of steam locomotives R766 and 5917

Operator(s): Sydney Rail Services

Effective From: 13/07/2024 **Effective To:** Until Published

Reference Documents:

TOC Manual: Section 10

General Details / Operating Condition:

This waiver supersedes and updates waiver 22039 and is issued to Sydney Rail Services for the operation of steam locomotives R766 and 5917 on the ARTC Network.

Details of the steam locomotives operation are as below:

Vehicle Code	Description	Class	Maximum Speed (km/h)	Live Weight (tonnes)	Length (m)	Draw Capacity (MN)	HP	Notes
R766	Steam locomotive	N/A	80	190.4	23.55	0.9	1250 kW	Refer notes
5917	Steam locomotive	N/A	80	154	20.6	0.90		Refer notes

Operational Notes:

1. The locomotives are permitted to operate under signals,
2. The locomotive operation is limited to 80km/hr,
3. The Hauled Load Limits shall apply:
 - 3.1. When operating between Islington Junction, Newcastle Ports, Maitland/Telarah and Gloucester the maximum hauled load of 410t shall be applied.
 - 3.2. General Limits based on RAS Ruling Gradient:

Ruling Gradient	1:30	1:40	1:45	1:50	1:66	1:77	1:80	1:90	1:100
R766	85	172	215	257	390	478	502	580	656

4. Maximum speed tender first is 40 km/h (when tender leads the engine anywhere in the consist),
5. All high visibility areas and reflective delineators shall be cleaned regularly to maintain maximum effectiveness,
6. Any Hot Bearing or Brake Detectors wayside alarms that are triggered by this locomotive shall not require the locomotive to be brought to a stop due to the high likelihood of a false alarm from the steam engine. However, the alarm shall be communicated with the operator to confirm the locomotives status,

7. Conditions when approaching passive level crossings:
 - 7.1. When approaching passive level crossings reduce speed to 60km/hr,
 - 7.2. It is the operator's responsibility to identify all passive level crossings.
8. Due to reduced driving cab visibility, there shall be at least 2 safeworking qualified driving crew operating R766 and 5917,
9. Only suitable water service vehicles, wagons and passenger carriages may be coupled to R766 and 5917,
10. R766 and 5917 shall operate with the headlights on to increase visibility, and cleaned daily to maintain function,
11. Special operating conditions may be applied to a train service with R766 and 5917 leading when operating in new areas of operation on the ARTC Network.
12. Prior to 5917 operating outside of NSW, evaluation of signal detection shall be undertaken with ARTC.

Approval:Approved by: Date: