

WOLSTANTON COLLIERY RAILWAY OPERATIONS

TASK LIST

1. Empties delivery (common carrier)
2. Empties shunt (private)
3. First best-coal shunt (private)
4. Second best-coal shunt (private)
5. Best-coal collection (common carrier)
6. Small-coal shunt (private)
7. Small-coal collection (common carrier)
8. Stone shunt

EMPTIES DELIVERY

A common-carrier train of empties emerges from portal 'NorthUp'. An up-side yard near Grange SB is used to runaround the train before it is drawn over the main lines and into Wolstanton reception siding. The loco detaches the van from the train and propels it into the van storage siding, then retires to the common-carrier MPD.

This is the only task that is not initiated via a Shedmaster Service Request. Rather the empties trains emerge from the portal according to the portal schedule.

Path and Schedule:

- Register train with Shedmaster..
- Proceed onto up goods line at Chatterley.
- Branch onto Grange Junction Up Goods line and drive beyond EY28a.
- Propel beyond EY31b.
- Runaround using EY31b, EY31a, GJ29
- Wait for Wolstanton Shunt token.
- Take path across main lines and into Wolstanton yard using GJ18b L, GJ17a L and GJ14b R. Stop before GJM8.
- Uncouple van from wagons and proceed to van storage siding by drawing beyond GJM8 then following path GJM8 L, GJ12b L, GJ13a R, GJ13b R, GJ17a R, GJ16b L, GJ19 R. Couple van to any vans already in storage.
- Uncouple from vans and proceed beyond GJ17a.
- Crossover main lines and onto loop siding via GJ29R.
- Release Wolstanton Shunt token.
- Enter up goods line via EY28b R and EY28a R.
- Drive beyond junction NC29b.
- Wait for MPD Access token.
- Enter MPD Arrivals Queue line via NC29b L, NC28b L, NC28a L, NC27 L, NC22b R.

EMPTIES SHUNT

The colliery shunt locomotive (a lone loco occupying an SM-defined double-ended departure road) attaches to the south end of the empties consist left in the colliery reception siding (if any) or the leftovers from a prior shunt of an empties consist (left between GJM7 and GJM8). The consist is then propelled into an unoccupied empties siding, which must exist because "empty siding unoccupied" is the criterion used by the colliery to generate the "empties shunt" SM service request. Excess wagons are withdrawn and deposited between GJM7 and GJM8.

The colliery script must be capable of ascertaining whether spare empties wagons exist before issuing the service request. A search of track sections GJ14b-GJM8 and GJM8-GJM7 must be conducted.

Path and Schedule:

- Wait for Wolstanton Shunt token.
- Move from rest position to beyond GJ14b.
- Couple to first encountered wagon on sections of track GJ14b-GJM7.

- If the coupling occurs on track section GJ14b-GJM8 (i.e. it is a recently arrived empties consist on the reception siding) AND a remainder of a prior delivery still exists on track section GJM8-GJM7, then the next step is to couple to the remainder.
- Wait for Wolstanton Gravity Load Interrupt token.
- Propel the consist into the unoccupied empties siding. This siding will have been identified by the colliery script in its service request.
- Decouple excess wagons and return beyond GJM7.
- Release Wolstanton Gravity Load Interrupt token.
- Uncouple from consist and return rest position.
- Release Wolstanton Shunt token.

FIRST BEST COAL SHUNT

The colliery shunt loco removes the consist from the fully-occupied BEST 1 full siding, and propels it into the BEST STORE siding. This is done so that loading can continue once the BEST 2 siding becomes fully occupied.

Path and Schedule

- Wait for Wolstanton Shunt token.
- Move from rest position to beyond GJ14a.
- Couple to lead wagon in the BEST 1 siding.
- Draw consist out beyond GJ14b.
- Propel to BEST STORE siding.
- Release Wolstanton Shunt token.
- Uncouple and return to rest position.

SECOND BEST COAL SHUNT

The colliery shunt loco assembles the loaded wagons in the BEST 2 siding with those in the BEST STORE siding, attaches a van from the VAN STORE siding, and positions the train for the common-carrier loco to collect.

Path and Schedule

- Wait for Wolstanton Shunt token.
- Move from rest position to beyond GJ14a.
- Couple to lead wagon in the BEST 2 siding.
- Draw consist out beyond GJ14b.
- Propel to BEST STORE siding and couple to consist stored there.
- Draw combined consists beyond GJ14a.
- Send SM Driver Command to request allocation of common carrier loco to the “Best-coal collection” task.
- Propel beyond GJ14b switched R..
- Runaround train via GJM8, GJ12b, GJ13a & GJ13b.
- Propel into VAN STORE siding and attach to leading van.
- Uncouple leading van from others in store.
- Draw train beyond GJ13a.
- Uncouple from consist and return to rest position.
- Wait for message “Release Token” from common carrier loco performing “Best-coal collection” task.
- Release Wolstanton Shunt token.

BEST-COAL COLLECTION

Loco is despatched from common-carrier MPD to Wolstanton to collect loaded coal train assembled at Wolstanton colliery by the local shunter. Train propelled back to a point where access to the down main line is possible. Train proceeds to NorthDn portal.

Path and Schedule

- Wait for Departure Road token.
- Wait for MPD Access token.
- Proceed beyond NC17.
- Change direction and take path NC17 R.
- Release tokens.
- Join down fast main line at CV13.
- Enter refuge loop via GJ32b L.
- Access reception siding via GJ14b R and proceed beyond GJM8.
- Back onto train via GJM8 L and GJ12b L..
- Propel train beyond
- Send message “Release Token” to local shunter to release Wolstanton Shunt token.
- Move forward onto down main line.
- Drive to NorthDn portal.

SMALL-COAL SHUNT

The colliery shunt loco attaches to the leading end of the loaded wagons in the SMALL full siding and draws them southwards before propelling them into the SMALL STORE siding.

Path and Schedule

- Wait for Wolstanton Shunt loco.
- Move from rest position beyond GJ13b.
- Couple to leading end of loaded small wagons in the SMALL siding.
- Draw consist beyond GJ14b.
- Propel into SMALL STORE siding using path GJ13bR, GJ13a R & GJ12b R.
- Uncouple and return to rest position.
- Release Wolstanton Shunt loco.

SMALL-COAL COLLECTION

Loco is despatched from common-carrier MPD to Wolstanton to collect loaded small-coal consist positioned in the SMALL STORE siding by the local shunter. The wagons are delivered to Shelton coal siding dedicated to small coal from Wolstanton.

Path and Schedule

- Wait for Departure Road token.
- Wait for MPD Access token.
- Proceed beyond NC17.
- Change direction and take path NC17 R.
- Release tokens.
- Join down fast main line at CV13.
- Enter refuge loop via GJ32b L.
- Stop before GJ19 and wait for Wolstanton Shunt token.
- Travel via GJ13b R and GJ13b R to couple to wagons in SMALL STORE siding.
- Draw consist across main lines and enter siding via GJ29 R.
- Release token.
- Propel beyond SI300a.
- Draw via nest through-line (SI301 L, SI302 L, SI303 L) to beyond SI311b.
- Propel down siding allocated to Wolstanton smalls until coupled to wagons already in siding.
- Uncouple and return to Grange via incoming route.
- Enter up goods line via EY28b R and EY28a R.
- Drive beyond junction NC29b.
- Wait for MPD Access token.
- Enter MPD Arrivals Queue line via NC29b L, NC28b L, NC28a L, NC27 L, NC22b R.

STONE SHUNT

The colliery shunt loco attaches to the leading end of the loaded wagons in the STONE full siding and draws them southwards before propelling them into the STONE STORE siding.

Path and Schedule

- Wait for Wolstanton Shunt token.
- Move from rest position beyond GJM12.
- Couple to leading end of loaded small wagons in the STONE siding.
- Draw consist beyond GJM12.
- Propel into STONE STORE siding using path GJM12 L, GJM9 L, GJM3 L.
- Release Wolstanton Shunt token.
- Couple to any wagons already in this siding..
- Uncouple and return to rest position.