LEVEL 2 TRAIN PLANNING



SPEAKER'S BRIEF – FREIGHT

The Level 2 Train Planning workshop is designed to introduce students to the manual training planning skills used before the introduction of computer technology. The aim is that by the end of the 3 days, they can turn a Bid into a validated schedule and prepare a hand-drawn timetable graph. The aim of this spot is to challenge the notion that passenger train always come first and that freight fills in the gaps. Also introduce students to Load Tables and the use of RT 3973 forms to permit the movement of Out of Gauge Loads, large containers, heavy axle-weight vehicles and Nuclear Flasks. There is an opportunity to sell 'freight' to the students!

This is a 60 minute slot (although this could be extended to 80 mins if the presenter believes they have a range of materials with which to engage the delegates. This is clearly not a 'chalk and talk' session. For example talking though the load tables for a simple service then asking them in pairs to find the maximum trailing load for a quite complex journey. Similarly asking if a particular train can be diverted off its booked (RT 3973) route.

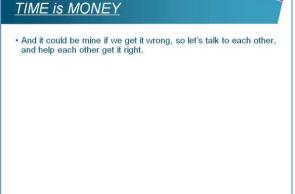
Nominally this slot is the first session on the third day; by this time the delegates will have planned a complex passenger railway service. After your session they will go on to plan a pair of class 4 freight trains.

LEVEL 2 TRAIN PLANNING



These are the current slides:

RAILWAY INDUSTRY TRAIN PLANNING LEVEL 2 TRAINING	What is Freight? • B – BIG • H – HEAVY • S – SLOW
 What does Freight mean for Train Planners? Variety of wagon types, size and shape Therefore, must have different dimensions overall Carry different commodities To a lesser extent, but not so less important, is a variety of locomotive type (primarily Class 66, 57, 60, 47, 37) plus electric (90/92) 	Something that is heavier is slower (consider how we need to develop a timetable) Something that is slower will get caught up by something faster (consider headways) It could need somewhere to 'get out of way' to let faster things past (utilisation of available asset, loops) It could be Out of Gauge (3973)



Feel free to suggest changes that would better reflect your message.



LEVEL 2 TRAIN PLANNING

These are the Load Tables currently used

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RAILTRACK GREAT WESTERN

FREIGHT TRAIN LOADS BOOK SECTION 'A' - AUTHORISED LOADS

(COMMENCING MARCH 2002)

This information is train specific. All trains in the WTT have an entry which is **ONLY** valid via the WTT route unless specified. All regular STP trains also have an entry but will be shown in the remarks column which route applies. Other authorised loads will be issued in Railtrack's Freight Train Notice, a copy of which is sent to all TOPS Offices.

These loads must **NOT** be used for any other train on all or part of the same route. Note all engineers traffic are based on hauling two axled wagons with a minimum of 34.5t couplings unless specified.

The last two pages are left blank, this is to enable written amendments to be inserted when advised by Railtrack wire.

For coal flows to / from Aberthaw, Didcot, Fifoots & Midlands Power Stations see page A 2, A3 & A4 (Page A4 for bogie wagons)

RAILTRACK GREAT WESTERN FREIGHT TRAIN LOADS BOOK RE - ISSUED MARCH 2002

A 2

FROM	RA	LL	No. of	37/0	37/7	56	60	66	REMARKS
All All All All		(SLU)	Locos	1.1.1.1.1.1		58	1.19	1.2	

TO ABERTHAW PS

NUMBER OF MGR WAGONS

Avonmouth Nat. Power	7	60	1	19	24	36#	36#	36#	# - Clear runs, Hallen Marsh In to Patchway In
			2	32	36#		1		& through Severn Tnl.
Cwmbargoed	6	52	1	20	20	36	36	36	
/ Newport Docks			2	36	36				
Cwmgwrach / Onllwyn	6	52	1	20	24a	34c	34c	34c	a - 37/4 or /5
/ Parc Slip			2	34c	34c				c - 36 MGR from Cwmgwrach
Portbury Docks	8	60	I	19	24	27#	36#	36#	# - Clear run through Severn Tunnel.
			2	32	36#				
Tower Colly	6	52	1	19		29	36	36	
			2	36					

TO FIFOOTS POINT PS

NUMBER OF MGR WAGONS

Avonmouth Nat. Power	7	60	1	19	24	36#	36#	36#	# - Clear runs, Hallen Marsh In to Patchway In
			2	32	36#				& through Severn Tnl.
Cwmbargoed	6	52	I	20	20	36	36	36	
/ Newport Docks			2	36	36				
Cwmgwrach / Onllwyn	6	52	I	20	24a	34c	34c	34c	a - 37/4 or /5
/ Parc Slip			2	34c	34ac				c - 36 MGR from Cwmgwrach
Portbury Docks	6	60	I	19	24	27#	36#	36#	# - Clear run through Severn Tunnel.
			2	32	36#				
Tower Colly	6	52	I	19	1	29	36	36	
			2	36					

LOADS SHOWN FOR NUMBERS OF MGR'S WAGONS (47t GLW) LOADED TO POWER STATION AND EMPTY UPON RETURN.

FOR ALL OTHER FLOWS WHICH CONVEY MGR WAGONS PLEASE SEE SEPARATE ENTRY IN LOADS BOOK.

LEVEL 2 TRAIN PLANNING



RAILTRACK GREAT WESTERN FREIGHT TRAIN LOADS BOOK RE - ISSUED MARCH 2002

FROM	RA		No. of Locos		37/7	56 58	60	66	REMARKS	1.4
------	----	--	-----------------	--	------	----------	----	----	---------	-----

TO DIDCOT PS

NUMBER OF MGR WAGONS

Avonmouth Nat. Power	7	65	 2	44		32	45	42	via Hullavington or Box or Newbury.
Daw Mill	8	65	I			45	45	45	Assisted Landor St (BL)
/ Toton		55	1			27	38	37	Unassisted Landor St
Parc Slip	6	52	1 2	36	36	36a	36	36	via SWML & Hullavington or Box. a - 32 if via Box.
Portbury Docks	8	65	 2			32	44	42	via Bath & Chippenham OR Bath. Bradford Jn, Berks & Hants.
Portbury Docks	8	65	1 2			27	36	36	via Filton Jn, Bristol PW, Hullavington & Swindon

TO TOTON / RUGELEY / IRONBRIDGE

NUMBER OF MGR WAGONS

Avonmouth Nat. Power	7	52	1 2	32	36	36	via Hullavington or Box & Heyford.
Avonmouth Nat. Power	7	52	1 2	32	36	33	via Charfield, Cheltenham & Barnt Green Assisted rear by 2 x 37/0 or Cl.60
Portbury Docks	8	52	1 2	27	36	33	Via Bristol PW, Cheltenham & Barnt Green. Assisted rear by 2 x 37/0 or Cl.60
Portbury Docks	8	65	1 2	32	36	36	via Bath, Chippenham, Swindon, Oxford & Heyford
Portbury Docks	8	65	1 2	27	36	36	via Filton Jn, Bristol PW, Hullavington, Swindon, Oxford & Heyford

LOADS SHOWN FOR NUMBERS OF MGR'S WAGONS (47t GLW) LOADED TO POWER STATION AND EMPTY UPON RETURN.

RAILTRACK GREAT WESTERN FREIGHT TRAIN LOADS BOOK RE - ISSUED MARCH 2002

A 4

FROM	RA	u	No. of	37/0	37/7	56	60	66	REMARKS
	10 180	(SLU)	Locos		10,25	58	1.20	14	

TO ABERTHAW PS

NUMBER OF HTA / HHA / JMA WAGONS

Avonmouth Nat. Power	7	60	1 2		20	20	1
Cwmbargoed / Tower Colly	6	60	1 2	16	21	19	
Cwmgwrach / Onllwyn / Parc Slip	6	60	1 2	16	21	19	
Portbury Docks	8	65	I	11	20	19	

TO DIDCOT PS

NUMBER OF HTA / HHA / JMA WAGONS

Avonmouth Nat. Power	7	65	1 2	16	23	23	via Hullavington or Box or Newbury.
Daw Mill / Toton	8	65					
Parc Slip	6	65	1 2				
Portbury Docks	8	65	I	17	23	23	via Bath & Chippenham OR Bath. Bradford Jn, Berks & Hants.
Portbury Docks	8	65	1	13	20	19	via Filton Jn, Bristol PW, Hullavington & Swindon

LOADS SHOWN FOR NUMBERS OF MGR'S WAGONS (102t GLW) LOADED TO POWER STATION AND EMPTY UPON RETURN.

FOR ALL OTHER FLOWS WHICH CONVEY MGR WAGONS PLEASE SEE SEPARATE ENTRY IN LOADS BOOK.

A 3

LEVEL 2 TRAIN PLANNING



A 5

RAILTRACK GREAT WESTERN ZONE FREIGHT TRAIN LOADS BOOK RE - ISSUED MARCH 2002

The first is	10000	2. S. S. 15.	140			GROS	S LOA	D INCLU	JDING L	OCOMO	DTIVE WI	EIGHT	
FROM	то	TRAFFIC	RA	ш	No. of Loco	37/0 (105)	37/7 (120)	47/0 (120)	56 (130)	58 (130)	59 / 60 (130)	66 (130)	REMARKS
Aberthaw PS	Cardiff Tidal	EWS / Oil	7	60	1	420	425a		445	445	445#	445#	# - Cl.60. a - 37/4 or /5
	Llanwern SW	EWS / Oil	7	60	1	420	425a		445	445	445#	445#	# - Cl.60. a - 37/4 or /5
Acton TC	Allington	EWS / Oil	8	60	I I		1250	1450	1660 1970b*	1660 1970b*	2575	2190*	b - assisted Acton Bank. * bogie wagons
	Angerstein Wharf	EWS / Stone	8	52	1		1250		1660 \$ 1790*	1660 \$ 1790*	1980#	1980*	 \$ - 2 axled wagons. # - Cl60 * - Bogie wagons.
	Ardingly	EWS / Stone	8	52	1		1365*				1965*	1965*	* - Bogie wagons.
	Avonmouth	EWS / Coal	7	70	1	1105	1120		1130	1130	1130#	1130	# - Cl. 60
	Brentford Tn	EWS / Stone	8	60	1	1435		2260	2275	2275	2275#	2275	
	Crawley FY	EWS / Stone	8	53	1		1365		1660	1660	2270	1980	
	Cliffe Hill	EWS / Stone	8	50	1			660	840	840	1200#		2 axled wagons. # - Cl60
	Cliffe / Grain / Hoo In	EWS / Stone	7	60	1		1250 2500	1150	1240	1240	2000#		Bogie wagons # - CI60
	Dagenham Dock	EWS / Stone	8	70	1						3190		Bogie wagons
	Godstone	EWS / Stone	8	60	1	1415	1660		1645	1580	2680	2680	Bogie wagons
	Harlow Mill	EWS / Stone	8	45	1	1070		1230	1660	1660	2170		
	Hayes Tar	EWS / Stone	8	54	1			1545	1970	1970	2170#	2170	
	Hothfield	EWS / Stone	8	44				1000 \$ 1140*	1355*	1355*	1980#*	1980*	 \$ - 2 axled wagons. # - Cl60 * - Bogie wagons.
	Lester Humb	EWS / Stone	8	60	1			660	840	840	1200#	1200	
	Old Oak Common	EWS / Eng	8	70	1 2	1070 2140	1070 2170	1560					2 axled wagons loaded to a max of RA8.
	Purfleet	EWS / Stone	8	68	1		1070 2250	1230	1660 3220	1660 3220	3190*	2000	* - Bogie wagons

LOADA00

31/08/2004

RAILTRACK GREAT WESTERN MAXIMUM LOADS TABLES RE - ISSUED DECEMBER 2000

RAILTRACK GREAT WESTERN

FREIGHT TRAIN LOADS BOOK SECTION 'B' - MAXIMUM LOADS

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Paddington to Fishguard Hbr (inc. W.Wales branch lines)	B. 02	Severn Beach, Barrow Road Branches	B. 10
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Cardiff Central to Bridgend - both diections (Vale of Glamorgan)	B. 04	Nth Somerset In to Bristol West - Both directions (via St Phillips Msh)	B. 10
Reading to Taunton - both directions (via Berks & Hants)	B. 04	Reading to Earley - Both directions (inc. Platforms 4A /B)	B. 11
Swindon to Penzance - both directions (via Bath Spa inc Portihead)	B. 05	Old Oak West / Hanwell to Northolt - Both directions	B. 11
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THE LOADS SHOWN ABOVE APPLY TO WAGONS WITH 34.5T COUPLINGS STRENGTHS. IF ANY WAGON IN TRAIN FORMATION HAS 23T COUPLINGS, THEN THE ABOVE FIGURE **MUST BE REDUCED BY 35 %**

B. 1

LEVEL 2 TRAIN PLANNING



B. 2 RAILTRACK GREAT WESTERN MAXIMUM LOADS TABLES RE - ISSUED DECEMBER 2000 MAXIMUM LOAD EXCLUDING LOCOMOTIVE WEIGHT **31 37/0 37/4 37/7 47/0 56/58 59/60** (75) (110) (105) (107) (120) (120) (130) (130) REMARKS FROM то RA LL (130) (50) PADDINGTON TO FISHGUARD HARBOUR (INCLUDING MILFORD HAVEN & PEMBROKE DOCK) 1215 2120 Paddington Acton Main Line inc. Acton TC Didcot Parkway Acton Main Line via Hullavington Didcot Parkway Bristol Parkway Bristol Parkway Severn Tnl Jn Severn Tnl Jn Pengam Jn via Pontyclun Bridgend Pengam Jn Margam Moors Jn Bridgend Felin Fran, Not Burrows Llandeilo Jn Margam Moors Jn via Landore Margam Moors Jn Llandeilo In Carmarthen In Landeilo In Carmarthen In Whitland Whitland Clarbeston Road Fishguard Habour Clarbeston Road inc. Oil Terminals Clarbeston Road Milford Haven Pembroke Dock Whitland

THE LOADS SHOWN ABOVE APPLY TO WAGONS WITH 34.5T COUPLINGS STRENGTHS. IF ANY WAGON IN TRAIN FORMATION HAS 23T COUPLINGS, THEN THE ABOVE FIGURE **MUST BE REDUCED BY 35 %**

KAILTKACK GREAT WESTERN MAXIMUM LOADS TABLES RE - ISSUED DECEMBER 2000

B. 3

FROM DIDCOT PARKW	TO AY TO HEYFORD	RA	ш	08 (50)	20 (75)	31 (110)	37/0 (105)	37/4 (107)	37/7 (120)	47/0 (120)	56 / 58 (130)	59 / 60 (130)	66 (130)	REMARKS
Didcot Parkway	Heyford	8	80*	715	1275	950	1740	1850	2040	1745	2025	2675	2675	* 63 D.C.L.
Heyford	Didcot Parkway	8	80*	670	1185	895	1615	1715	1895	1475	1880	2495	2495	* 59 D.C.L
BRISTOL PARKW	AY TO BARNT GR	EEN VI	CHA	RFIELD)		I		1	I	L	L		
Bristol PW	Barnwood Jn	8	70	935	1550	1205	2115	2245	2480	1945	2465	3000	3000	inc. Gloucester Station
Barnwood Jn	Bromsgrove	8	70	700	1035	910	1410	1500	1655	1530	1645	2200	2200	
Bromsgrove	Barnt Green	8	70	140	325	260	490	590	600	530	715	1045	770	unassisted

	MAXIMUM LOAD EXCLUDING LOCOMOTIVE WEIGHT														
FROM TO		RA LL		08 (50)	20 31 (75) (110)		37/0 (105)	37/4 (107)	37/7 (120)	47/0 (120)	56 / 58 (130)	59 / 60 (130)	66 (130)	REMARKS	
BROMSGROVE	TO BARNT GREEN	(ASSIST	ED LO	DADS)									1000		
Bromsgrove	Barnt Green	8	70		730	600	980	920	925	815	1145	1380	1195	assisted rear by Cl. 37/0	
Bromsgrove	Barnt Green	8	70		1170	860	1360	1360	1370	1120	1545	1750	1590	assisted rear by 2 x 37/0 or 60	
Bromsgrove	Barnt Green	8	70	I	985	820	1195	1155	1165	1040	1410	1540	1540	assisted rear by Cl.66	

THE LOADS SHOWN ABOVE APPLY TO WAGONS WITH 34.5T COUPLINGS STRENGTHS. IF ANY WAGON IN TRAIN FORMATION HAS 23T COUPLINGS, THEN THE ABOVE FIGURE **MUST BE REDUCED BY 35 %**

LEVEL 2 TRAIN PLANNING



					MAXI	MUMI	OADE	XCIU	DINGI	OCOM	OTIVE	VEICUT		
FROM	то	RA	ш	08 (50)	20 (75)	31 (110)	37/0 (105)	37/4 (107)	37/7	47/0	56 / 58 (130)	59 / 60 (130)	66 (130)	REMARKS
CARDIFF VALLEY	S cont			()	()	(,	(1.05)	(101)	(120)	(120)	(130)	(130)	(130)	1
Rhymney	Ystrad M. South	6	60	1165	1715	1535	2345	2490	2745	2545			3000	
Cwmbargoed	Ystrad M. South	8	60	900	1520	1165	2070	2200	2430	1885	2415	3000	3000	
Ystrad M. South	Cardiff Cent	6	70	520	930	700	1265	1350	1490	1180	1475	1990	1990	
Heath Jn	Coryton	6	80	580	855	780	1165	1240	1365	1270	1365	1825	1825	T
Coryton	Heath Jn	6	80	1770	2600	2395	3105	3110	3120	3120	3130	3130	3130	
Cardiff Bay	Cardiff Queen St	6	60	720	1060	935	1450	1540	Ī	1570				Γ
Cardiff Queen St	Cardiff Bay	6	60	1190	1750	1505	2385	2535		2385				
Cardiff Queen St	Radyr Jn	8	70	840	1465	1100	2000	2125	2345	1785	2330	3000	3000	via Llandaf
Radyr Jn	Cardiff Queen St	8	70	1220	1795	1610	2450	2600	2870	2660	2855	3000	3000	via Llandaf
Cardiff Cent	Radyr In	8	70	1350	1985	1785	2710	2880	3000					
										2945	3000	3000	3000	via Ninian Park
Radyr Jn	Cardiff Cent	8	70	1050	1640	1335	2240	2380	2625	2105	2610	3000	3000	via Ninian Park
Radyr Jn	Pontypridd	6	70	465	970	630	1245	1500	1600	1065	1645	2200	2125	T
Pontypridd	Radyr	6	70	1200	1765	1585	2410	2560	2830	2620	2810	3000	3000	
Pontypridd	Treherbert	6	60	285	610	380	785	1020	T	675			1380	1
Treherbert	Pontypridd	6	60	1280	1880	1690	2570	2725		2790			3000	

THE LOADS SHOWN ABOVE APPLY TO WAGONS WITH 34.5T COUPLINGS STRENGTHS. IF ANY WAGON IN TRAIN FORMATION HAS 23T COUPLINGS, THEN THE ABOVE FIGURE **MUST BE REDUCED BY 35 %**

	HNOLOGY))	West Coast 2 Bogie Vehicl Maximum G	es			ll Freigh	TPT, S	SPS, 10K, RTC, D	18 August 1998						
Cat. No.	Route Section	Loco. Class Loco. Weight	56 123	57 113	58 127	59 124	60 125	66 124	67 89	73/0 75	73/1 78		Coupl 23.0	ing Strength tonnes 34.5	56.0
3000	CREWE to COAL YARD JN		3425	3385	3260	7285	7280	7100	2415	1875	1985		2965	4450	7220
3001	COAL YARD JN to WINSFOR	D JN	5490	5420	5235	11815	13605	10435	2650	3015	3185		4690	7040	9995
3002	WINSFORD JN to HARTFORD	LNW JN	3535	3495	3370	7620	7615	7430	2525	1940	2050		3060	4590	7450
3003	HARTFORD LNW JN to WEAT	VER JN	3460	3420	3295	7390	7390	7205	2450	1895	2005		2995	4495	7295
••	3060 to Halton Jn														
3004	WEAVER JN to ACTON GRAM	NGE JN	2050	2030	1950	3805	3805	3710	1235	1120	1185		1820	2730	4430
**	3234 to Walton Old Jn														
3005	ACTON GRANGE JN to WARI	RINGTON BQ	2050	2030	1950	3805	3805	3710	1235	1120	1185		1820	2730	4430
3006	WARRINGTON BQ to WINWI	CK JN	3490	3050	3325	6425	7435	5635	1610	1915	1580		3020	4530	7355
**	3290 to Earlestown S Jn														
3007	WINWICK JN to GOLBORNE	JN	2110	1975	2010	3940	3940	3675	1095	1155	940		1870	2805	4555
3008	GOLBORNE JN to HAYDOCK	л	3555	2715	3390	5735	6640	5025	1455	1680	1370		3075	4615	7490
3009	HAYDOCK JN to BAMFURLO	ING JN	2570	2540	2445	5000	5000	4875	1455	1405	1370		2250	3375	5485
••	North West Zone Book to Ince M	Aoss Jn													
3010	BAMFURLONG JN to SPRING	IS BNCH JN	2570	2360	2445	5000	5000	4380	1285	1405	1160		2250	3375	5485
**	via Main/Slow Line														
	••														
3011	BAMFURLONG JN to SPRINC	IS BNCH JN	2570	2360	2445	5000	5000	4380	1285	1405	1160		2250	3375	5485
••	via Goods Line														

LEVEL 2 TRAIN PLANNING



AFATEC	HNOLOGY)	West Coast 2 Bogie Vehicl		aximum	Loads					TPT, S	SPS, 10K, RTC, I	Derby		18 Augu	st 1998
RAIL	HNOLOGY /	Maximum G	ross Trai	ling Loa	ds for A	II Freigh	t - tonn								
Cat. No.	Route Section	Loco. Class Loco. Weight	56 123	57 113	58 127	59 124	60 125	66 124	67 89	73/0 75	73/1 78		Coupl 23,0	ing Strength tonnes 34.5	56,0
3000	CREWE to COAL YARD JN		3425	3385	3260	7285	7280	7100	2415	1875	1985		2965	4450	7220
3001	COAL YARD JN to WINSFOR	N UD	5490	5420	5235	11815	13605	10435	2650	3015	3185		4690	7040	9995
3002	WINSFORD JN to HARTFOR	D LNW JN	3535	3495	3370	7620	7615	7430	2525	1940	2050		3060	4590	7450
3003	HARTFORD LNW JN to WEA	VER JN	3460	3420	3295	7390	7390	7205	2450	1895	2005		2995	4495	7295
••	3060 to Halton Jn														
3004	WEAVER JN to ACTON GRA	NGE JN	2050	2030	1950	3805	3805	3710	1235	1120	1185		1820	2730	4430
••	3234 to Walton Old Jn														
3005	ACTON GRANGE JN 10 WAR	RINGTON BQ	2050	2030	1950	3805	3805	3710	1235	1120	1185		1820	2730	4430
3006	WARRINGTON BQ to WINW	ICK JN	3490	3050	3325	6425	7435	5635	1610	1915	1580		3020	4530	7355
••	3290 to Earlestown S Jn														
3007	WINWICK JN to GOLBORNE	e jn	2110	1975	2010	3940	3940	3675	1095	1155	940		1870	2805	4555
3008	GOLBORNE JN to HAYDOC	K JN	3555	2715	3390	5735	6640	5025	1455	1680	1370		3075	4615	7490
3009	HAYDOCK JN to BAMFURL	ONG JN	2570	2540	2445	5000	5000	4875	1455	1405	1370		2250	3375	5485
••	North West Zone Book to Ince	Moss Jn													
3010	BAMFURLONG JN to SPRIN	GS BNCH JN	2570	2360	2445	5000	5000	4380	1285	1405	1160		2250	3375	5485
**	via Main/Slow Line														
	••														
3011	BAMFURLONG JN to SPRIN	GS BNCH JN	2570	2360	2445	5000	5000	4380	1285	1405	1160		2250	3375	5485
••	via Goods Line														