

Tritax Symmetry (Hinckley) Limited

## **HINCKLEY NATIONAL RAIL FREIGHT INTERCHANGE**

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### **The Hinckley National Rail Freight Interchange Development Consent Order**

Project reference TR050007

### **Written Statement of Oral Case ISH2 [Appendix G - HGV Miles and Carbon Savings]**

Document reference: 18.6.7

Revision: 1

**14 November 2023**

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Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009  
Regulation 5(2)(q)

## **HNRFI EXAMINATION**

### **SUMMARY NOTE**

### **LORRY MILES SAVED**

### **METHODOLOGY**

#### **1. INTRODUCTION**

- 1.1 The assessment of the indicative lorry miles saved has been expressed as c83m miles per annum assuming 16 trains use the Rail Freight Terminal each day and 4 on Saturdays. (Doc Ref. 6.2.3.1; PINS ref APP-131)
- 1.2 The assessment of this provides both lorry miles and kilometres saved, along with a summary analysis of the indicative build-up of services by additional trains; and associated lorry miles saved.
- 1.3 This has then been assessed for NET CO<sub>2</sub>e savings, having discounted for CO<sub>2</sub>e produced by the train movements. A deduction in lorry miles saved has been made to reflect that some container delivery points off-site may have had a slightly shorter road distance from the origin, if delivered direct by HGV.

#### **2. RAIL TO LORRY MOVEMENTS**

- 2.1 The Rail to HGV / Lorry moves has been agreed with the Transport Working Group based on the model in Appendix 8.1: Transport Assessment [part 4 of 20] Trip Generation Addendum (document reference: 6.2.8.1, APP-141).
- 2.2 This was designed to stress test the highway network with a maximum probable outcome from 16 trains per day using the Rail Terminal, and assumes 100 TEU (Twenty Foot Equivalent) container capacity, using 775m Freightliner Shortliner trains at 81% utilisation (i.e. 81 TEU utilised).
- 2.3 Most containers are 40' and some are 20', but each container will require an HGV move, regardless of size (two 20' containers can be moved together, but this is not common). The conversion factor of TEU to Containers moved, is 1.8. A train of 81 TEU utilisation will have 45 containers each way to be moved – 90 both ways.
- 2.4 Whether an HGV collects from the coastal port or from the inland rail port, it may arrive with another container to be dropped off before collecting a return load; or it may arrive empty simply collecting. This means that for each container moved the total number of HGV moves needs to reflect that some HGV's will have arrived empty. This is recognised at ports and rail terminals at a ratio of 1.35 HGV moves per container.
- 2.5 This then takes the number of HGV moves per train to 122, to move 90 containers.

### **3. LORRY MOVE TO LORRY MILES SAVED**

3.1 For the purposes of assessing Lorry Miles Saved, the above assessment has been utilised, with assumptions made on train routing in accordance with the capacity analysis undertaken by WSP and Network Rail. This allows for up to 10 trains travelling to and from the east of HNRFI and 6 trains to and from the west each weekday, (a reduced number of trains will operate on Saturdays).

3.2 These comprise:

to the East:

Felixstowe	6
London Gateway	3
Teesport	1

And to the West:

Liverpool Port	2
Cardiff	1
Manchester	1
Glasgow	2

3.3 The HGV mileages for each of these origins and destinations is then multiplied by the number of HGV moves required for the same delivery by rail from that location per weekday. For Saturday the mileage saved is calculated as a proportion of the number of trains moved on a Saturday (4) compared to a weekday (16), i.e. 25%.

3.4 The assumptions for the origin and destination for the total number of trains from 1 to 16 has been provided as separate tabbed worksheets, to enable an indicative assessment of CO2 savings to be calculated as services are ramped-up. The ramp-up assumes two additional services for each year of operation, up to a maximum of 16 per weekday.

3.5 This provides a total annual mileage based on 260 weekday moves and 52 Saturday HGV moves, which at 16 trains per weekday and 4 on a Saturday, equates to c. 83 million miles per annum.

### **4. LORRY MILES SAVED TO CO2 SAVINGS**

4.1 As requested, a detailed analysis has been prepared and is attached setting out the assessment of Lorry Miles and CO2e saved, against each train, in order that there is complete transparency as to the benefits that will be obtained as this scheme matures.

4.2 The assumptions of CO2e emissions for HGV's are based on the International Council on Clean Transport (ICCT) published in Sept 2021 - Working Paper 2021-2035. This identified a baseline CO2e of 0.7835 Kilograms per Kilometre emitted by a Group 5

Tractor and Trailer with a long-haul payload of 13.84T. National Highways model has a similar figure of 0.78 Kilograms per Kilometre.

- 4.3 This has been used to assess the CO<sub>2</sub>e emissions for HGVs mileage identified for each train.
- 4.4 The total for 83m lorry miles (133.58 Kilometres) is 104.78 Kilo Tonnes CO<sub>2</sub>e per annum.
- 4.5 For each train movement the rail mileage (and kilo metres) has been identified between HNRFI and the origin and destination ports/terminals as per the lorry mile assessment.
- 4.6 The Office of Road and Rail ('ORR') publishes regular reports on its assessment of the CO<sub>2</sub>e from trains and for freight. This is expressed as CO<sub>2</sub>e grams per NET tonne kilometre moved. As of March 2022 this is published at 26.9 gms, being 0.0269 Kilograms per NET tonne kilometre moved.
- 4.7 The NET tonne is the payload, the freight actually moved by rail. To ensure a direct comparison therefore the assumed payload for a 40' container has been taken as the same as for the ICCT HGV, at 13.84Tonnes of freight.
- 4.8 Adjusting this to Twenty Foot Equivalent TEU's provides a TEU weight of 6.92T payload, which is then multiplied by the TEU/Train utilisation at 81, creating an assumed equivalent total of HGV movements, therefore 560.52 Tonnes of freight.
- 4.9 This has the been multiplied by the ORR's CO<sub>2</sub>e assessment for kilograms per net tonne kilometre (0.0269) and then by the round-trip distance between HNRFI and the Terminal.
- 4.10 At 16 trains the emitted diesel for the same payload as the HGV's, is 34.66 Kilo Tonnes CO<sub>2</sub>e per annum.
- 4.11 In order to identify the net benefit, the rail CO<sub>2</sub>e emissions have to be deducted from the HGV emissions.
- 4.12 This creates a net saving of 70.12 Kilo Tonnes CO<sub>2</sub>e per annum, when using diesel rail freight instead of HGVs, assuming 16 trains per weekday.
- 4.13 This is 67% more efficient than HGV's. This is slightly below the Government's published figure of 76%, but this will include an element of electric traction, as an overall headline figure.
- 4.14 This assessment has been provided in considerable detail to ensure transparency in the assessment. The base assumptions are published from reliable sources, being the Office for Road and Rail (ORR) and the International Council on Clean Transport (ICCT)

**END**

**HINCKLEY NRFI HGV MILEAGE INDICATIVE LORRY MILES SAVED PER ANNUM SUMMARY SHEET**

<b>ASSUMPTIONS</b>	Road miles between Origin and HNRFI	HNRFI - Smithy Lane Jn 2 M69.	81	Twenty-foot Equivalent Unit/Train Utilisation
	30% of container to / from occupier at HNRFI		1.8	Twenty-foot Equivalent Unit to Containers miles each way average
	70% of container to / from off-site customer of railport		15	
	66% of offsite containers continue direction of route (merely mode transfer)		260	Weekdays
	34% of offsite containers backtrack towards origin, increasing overall journey miles		52	Saturdays
	1.60934 Kilometers per Mile			

**TRAINS PER DAY MILLION LORRY MILES SAVED PER ANNUM MILLION LORRY KILOMETRES SAVED PER ANNUM**

WEEK DAY	SATURDAY	TOTAL	OCCUPIERS	OFF SITE	TOTAL	OCCUPIERS	OFF- SITE
1	0	4.6	1.4	3.2	7.4	2.3	5.1
2	0	9.1	2.8	6.3	14.6	4.5	10.1
3	1	13.9	4.3	9.6	22.4	6.9	15.4
4	1	17.8	5.5	12.3	28.6	8.9	19.8
5	1	22.4	6.9	15.5	36.0	11.1	24.9
6	2	27.2	8.4	18.8	43.8	13.5	30.3
7	2	36.8	11.3	25.5	59.2	18.2	41.0
8	3	42.4	13.0	29.4	68.2	20.9	47.3
9	3	45.6	14.0	31.6	73.4	22.5	50.9
10	4	56.2	17.2	39.0	90.4	27.7	62.8
11	4	60.8	18.6	42.1	97.8	29.9	67.8
12	4	64.6	19.8	44.8	104.0	31.9	72.1
13	4	70.4	21.6	48.8	113.3	34.8	78.5
14	4	74.3	22.8	51.5	119.6	36.7	82.9
15	4	78.8	24.2	54.7	126.8	38.9	88.0
16	4	<b>83.1</b>	25.5	57.6	133.7	41.0	92.7

**CO2e SAVINGS PER ANNUM (ktpa)**

<b>ASSUMPTIONS</b>	0.7835	HGV Euro 6 @ Kilogms per Km CO2e	ICC T 09.2021 Group 5 HGV Tractor and trailer - Long Haul Payload 13.84T
	0.0269	ORR Mar 2022 - Freight diesel CO2e Kilograms per NET Tonne Km (payload of freight moved)	
	13.84	Tonne equivalent payload to HGV	
	6.92	Tonne adjusted to TEU equivalent	
	560.52	Tonnes freight moved per train as per HGV basis (Long Haul Payload)	

**HGV Euro VI KILO TONNES CO2e PER ANNUM ( ktpa ) DIESEL FREIGHT TRAIN KILO TONNES CO2e PER ANNUM ( ktpa )**

TOTAL	OCCUPIERS	OFF- SITE	MILLION MILES PA	MILLION KMS PA	CO2e ktpa	TRAINS
5.80	1.77	4.03	0.08	0.14	2.06	1
11.47	3.53	7.94	0.17	0.27	4.11	2
17.53	5.42	12.10	0.25	0.41	6.14	3
22.44	6.94	15.51	0.32	0.51	7.76	4
28.24	8.70	19.54	0.41	0.65	9.83	5
34.30	10.59	23.71	0.49	0.78	11.83	6
46.40	14.25	32.15	0.65	1.04	15.66	7
53.46	16.39	37.07	0.75	1.20	18.14	8
57.50	17.65	39.85	0.79	1.28	19.26	9
70.86	21.69	49.18	0.97	1.56	23.52	10
76.66	23.45	53.08	1.05	1.70	25.57	11
81.46	24.97	56.49	1.12	1.80	27.17	12
88.77	27.24	61.53	1.21	1.95	29.41	13
93.69	28.75	64.94	1.28	2.06	31.03	14
99.36	30.51	68.97	1.36	2.19	33.08	15
<b>104.78</b>	<b>32.15</b>	<b>72.63</b>	<b>1.43</b>	<b>2.30</b>	<b>34.66</b>	<b>16</b>

**RESULTS**

<b>16 Trains per day</b>
<b>83.1 million lorry miles saved</b>
<b>70.12 ktpa CO2e saved</b>
<b>67% more efficient by diesel train</b>

**NET CO2e SAVINGS (ktpa)**

%	CO2e ktpa
65%	3.74
64%	7.36
65%	11.39
65%	14.68
65%	18.42
66%	22.47
66%	30.74
66%	35.33
67%	38.24
67%	47.34
67%	51.09
67%	54.28
67%	59.35
67%	62.66
67%	66.28
<b>67%</b>	<b>70.12</b>

HINCKLEY NRFI	HGV MILEAGE	INDICATIVE LORRY MILES SAVED	TRAIN MILES
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ASSUMPTIONS	Road miles between Origin and HNRFI	HNRFI - Smyth Lane Jn 2 M69.		81	Twenty-foot Equivalent Unit/Train Utilisation
	30% of container to / from occupier at HNRFI			1.8	Twenty-foot Equivalent Unit to Containers
	70% of container to / from off-site customer of railport			15	miles each way average
	66% of offsite containers continue direction of route (merely mode transfer)			260	Weekdays
	34% of offsite containers backtrack towards origin, increasing overall journey miles			52	Saturdays
	1.60934 Kilometers per Mile				

	Miles one way	No. trains	TOTAL TEU per w/day (both ways)	Container moves per w/day	ratio container moves to HGV / empty running	ALL HGV Moves per w/day	OCCUPIER HGV Moves per w/day	OFF SITE HGV Moves per w/day	OCCUPIERS			OFF SITE	TOTAL
									OCCUPIER ROAD MILES SAVED per w/day	OFF SITE GROSS ROAD MILES SAVED per w/day	OFF SITE EXTRA CARTAGE MILES [er w/day	OFF SITE NET LORRY MILES SAVED per w/ day	ALL HGV LORRY MILES SAVED per w/day
to and from													
<b>Felixstowe</b>	<b>148</b>	<b>1</b>	<b>162</b>	<b>90</b>	<b>1.35</b>	<b>122</b>	<b>36</b>	<b>85</b>	<b>5,395</b>	<b>12,587</b>	<b>434</b>	<b>12,154</b>	<b>17,548</b>
London Gateway	128	0	0	0	1.35	0	0	0	-	-	-	-	-
Liverpool Port	128	0	0	0	1.35	0	0	0	-	-	-	-	-
Cardiff	138	0	0	0	1.35	0	0	0	-	-	-	-	-
Teesport	187	0	0	0	1.35	0	0	0	-	-	-	-	-
Manchester	108	0	0	0	1.35	0	0	0	-	-	-	-	-
Glasgow	300	0	0	0	1.35	0	0	0	-	-	-	-	-
<b>TOTALS PER WEEKDAY</b>		<b>1</b>	<b>162</b>	<b>90</b>		<b>122</b>	<b>36</b>	<b>85</b>	<b>5,395</b>	<b>12,587</b>	<b>434</b>	<b>12,154</b>	<b>17,548</b>
				<b>TRAINS</b>	<b>1</b>	<b>WEEKDAYS</b>	<b>260</b>	<b>Miles Saved PA</b>	<b>1,402,596</b>			<b>3,159,948</b>	<b>4,562,544</b>
				<b>TRAINS</b>	<b>0</b>	<b>Saturdays</b>	<b>52</b>	<b>Miles Saved PA</b>	<b>-</b>			<b>-</b>	<b>-</b>
									<b>1,402,596</b>			<b>3,159,948</b>	<b>4,562,544</b>
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million miles</b>			<b>1.4</b>			<b>3.2</b>	<b>4.6</b>
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million kilometres</b>			<b>2.3</b>			<b>5.1</b>	<b>7.4</b>

TRAIN MILES USED		
TRAIN MILES each way	PER DAY	PER ANNUM
163	326	84,760
130	0	-
130	0	-
127	0	-
177	0	-
94	0	-
295	0	-
<b>TOTAL W'DA)</b>	<b>326</b>	<b>84,760</b>
<b>SATURDAY</b>	<b>0</b>	<b>-</b>
<b>Million Train miles</b>		<b>0.08</b>
<b>Milliom Train Kms</b>		<b>0.14</b>

HINCKLEY NRFI	HGV MILEAGE	INDICATIVE LORRY MILES SAVED	TRAIN MILES
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ASSUMPTIONS	Road miles between Origin and HNRFI	HNRFI - Smithy Lane Jn 2 M69.		
	30% of container to / from occupier at HNRFI		81	Twenty-foot Equivalent Unit/Train Utilisation
	70% of container to / from off-site customer of railport		1.8	Twenty-foot Equivalent Unit to Containers
	66% of offsite containers continue direction of route (merely mode transfer)		15	miles each way average
	34% of offsite containers backtrack towards origin, increasing overall journey miles		260	Weekdays
	1.60934 Kilometers per Mile		52	Saturdays

	Miles one way	No. trains	TOTAL TEU per w/day (both ways)	Container moves per w/day	ratio container moves to HGV / empty running	ALL HGV Moves per w/day	OCCUPIER HGV Moves per w/day	OFF SITE HGV Moves per w/day	OCCUPIERS			OFF SITE	TOTAL
									OCCUPIER ROAD MILES SAVED per w/day	OFF SITE GROSS ROAD MILES SAVED per w/day	OFF SITE EXTRA CARTAGE MILES [er w/day	OFF SITE NET LORRY MILES SAVED per w/ day	ALL HGV LORRY MILES SAVED per w/day
to and from													
<b>Felixstowe</b>	<b>148</b>	<b>2</b>	<b>324</b>	<b>180</b>	<b>1.35</b>	<b>243</b>	<b>73</b>	<b>170</b>	<b>10,789</b>	<b>25,175</b>	<b>868</b>	<b>24,307</b>	<b>35,096</b>
London Gateway	128	0	0	0	1.35	0	0	0	-	-	-	-	-
Liverpool Port	128	0	0	0	1.35	0	0	0	-	-	-	-	-
Cardiff	138	0	0	0	1.35	0	0	0	-	-	-	-	-
Teesport	187	0	0	0	1.35	0	0	0	-	-	-	-	-
Manchester	108	0	0	0	1.35	0	0	0	-	-	-	-	-
Glasgow	300	0	0	0	1.35	0	0	0	-	-	-	-	-
<b>TOTALS PER WEEKDAY</b>		<b>2</b>	<b>324</b>	<b>180</b>		<b>243</b>	<b>73</b>	<b>170</b>	<b>10,789</b>	<b>25,175</b>	<b>868</b>	<b>24,307</b>	<b>35,096</b>
				<b>TRAINS</b>	<b>2</b>	<b>WEEKDAYS</b>	<b>260</b>	<b>Miles Saved PA</b>	<b>2,805,192</b>			<b>6,319,895</b>	<b>9,125,087</b>
				<b>TRAINS</b>	<b>0</b>	<b>Saturdays</b>	<b>52</b>	<b>Miles Saved PA</b>	<b>-</b>			<b>-</b>	<b>-</b>
									<b>2,805,192</b>			<b>6,319,895</b>	<b>9,125,087</b>
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million miles</b>			<b>2.8</b>			<b>6.3</b>	<b>9.1</b>
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million kilometres</b>			<b>4.5</b>			<b>10.1</b>	<b>14.6</b>

TRAIN MILES USED		
TRAIN MILES each way	PER DAY	PER ANNUM
163	652	169,520
130	0	-
130	0	-
127	0	-
177	0	-
94	0	-
295	0	-
<b>TOTAL W'DAY</b>	<b>652</b>	<b>169,520</b>
<b>SATURDAY</b>	<b>0</b>	<b>-</b>
<b>Million Train miles</b>		<b>0.17</b>
<b>Milliom Train Kms</b>		<b>0.27</b>

HINCKLEY NRFI	HGV MILEAGE	INDICATIVE LORRY MILES SAVED	TRAIN MILES
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ASSUMPTIONS	Road miles between Origin and HNRFI	HNRFI - Smithy Lane Jn 2 M69.	
	30% of container to / from occupier at HNRFI		81 Twenty-foot Equivalent Unit/Train Utilisation
	70% of container to / from off-site customer of railport		1.8 Twenty-foot Equivalent Unit to Containers
	66% of offsite containers continue direction of route (merely mode transfer)		15 miles each way average
	34% of offsite containers backtrack towards origin, increasing overall journey miles		260 Weekdays
	1.60934 Kilometers per Mile		52 Saturdays

	Miles one way	No. trains	TOTAL TEU per w/day (both ways)	Container moves per w/day	ratio container moves to HGV / empty running	ALL HGV Moves per w/day	OCCUPIER HGV Moves per w/day	OFF SITE HGV Moves per w/day	OCCUPIERS			OFF SITE	TOTAL	TRAIN MILES USED			
									OCCUPIER ROAD MILES SAVED per w/day	OFF SITE GROSS ROAD MILES SAVED per w/day	OFF SITE EXTRA CARTAGE MILES [er w/day	OFF SITE NET LORRY MILES SAVED per w/ day	ALL HGV LORRY MILES SAVED per w/day	TRAIN MILES each way	PER DAY	PER ANNUM	
to and from																	
<b>Felixstowe</b>	<b>148</b>	<b>2</b>	324	180	1.35	243	73	170	10,789	25,175	868	24,307	35,096	163	652	169,520	
<b>London Gateway</b>	<b>128</b>	<b>1</b>	162	90	1.35	122	36	85	4,666	10,886	434	10,453	15,118	130	260	67,600	
Liverpool Port	128	0	0	0	1.35	0	0	0	-	-	-	-	-	130	0	-	
Cardiff	138	0	0	0	1.35	0	0	0	-	-	-	-	-	127	0	-	
Teesport	187	0	0	0	1.35	0	0	0	-	-	-	-	-	177	0	-	
Manchester	108	0	0	0	1.35	0	0	0	-	-	-	-	-	94	0	-	
Glasgow	300	0	0	0	1.35	0	0	0	-	-	-	-	-	295	0	-	
<b>TOTALS PER WEEKDAY</b>		<b>3</b>	<b>486</b>	<b>270</b>		<b>365</b>	<b>109</b>	<b>255</b>	<b>15,455</b>	<b>36,061</b>	<b>1,301</b>	<b>34,760</b>	<b>50,215</b>	<b>TOTAL W'DAY</b>	<b>912</b>	<b>237,120</b>	
					<b>TRAINS</b>		<b>3</b>	WEEKDAYS									
					<b>TRAINS</b>		<b>1</b>	Saturdays									
								Miles Saved PA	4,018,248			9,037,583	13,055,831				
								Miles Saved PA	267,883			602,506	870,389	<b>SATURDAY</b>	<b>304</b>	<b>15,808</b>	
									4,286,131			9,640,089	13,926,220				
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million miles</b>			<b>4.3</b>			<b>9.6</b>	<b>13.9</b>	<b>Million Train miles</b>		<b>0.25</b>	
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million kilometres</b>			<b>6.9</b>			<b>15.4</b>	<b>22.4</b>	<b>Milliom Train Kms</b>		<b>0.41</b>	



HINCKLEY NRFI	HGV MILEAGE	INDICATIVE LORRY MILES SAVED	TRAIN MILES
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	34%	of offsite containers backtrack towards origin, increasing overall journey miles		52	Saturdays
	1.60934	Kilometers per Mile			

	Miles one way	No. trains	TOTAL TEU per w/day (both ways)	Container moves per w/day	ratio container moves to HGV / empty running	ALL HGV Moves per w/day	OCCUPIER HGV Moves per w/day	OFF SITE HGV Moves per w/day	OCCUPIERS			OFF SITE	TOTAL
									OCCUPIER ROAD MILES SAVED per w/day	OFF SITE GROSS ROAD MILES SAVED per w/day	OFF SITE EXTRA CARTAGE MILES [er w/day	OFF SITE NET LORRY MILES SAVED per w/ day	ALL HGV LORRY MILES SAVED per w/day
to and from													
<b>Felixstowe</b>	<b>148</b>	<b>2</b>	324	180	1.35	243	73	170	10,789	25,175	868	24,307	35,096
<b>London Gateway</b>	<b>128</b>	<b>1</b>	162	90	1.35	122	36	85	4,666	10,886	434	10,453	15,118
<b>Liverpool Port</b>	<b>128</b>	<b>1</b>	162	90	1.35	122	36	85	4,666	10,886	434	10,453	15,118
Cardiff	138	0	0	0	1.35	0	0	0	-	-	-	-	-
Teesport	187	0	0	0	1.35	0	0	0	-	-	-	-	-
Manchester	108	0	0	0	1.35	0	0	0	-	-	-	-	-
Glasgow	300	0	0	0	1.35	0	0	0	-	-	-	-	-
<b>TOTALS PER WEEKDAY</b>		<b>4</b>	<b>648</b>	<b>360</b>		<b>486</b>	<b>146</b>	<b>340</b>	<b>20,120</b>	<b>46,948</b>	<b>1,735</b>	<b>45,213</b>	<b>65,333</b>
				<b>TRAINS</b>	<b>4</b>	<b>WEEKDAYS</b>	<b>260</b>	Miles Saved PA	5,231,304			11,755,271	16,986,575
				<b>TRAINS</b>	<b>1</b>	<b>Saturdays</b>	<b>52</b>	Miles Saved PA	261,565			587,764	849,329
									5,492,869			12,343,034	17,835,904
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million miles</b>			<b>5.5</b>			<b>12.3</b>	<b>17.8</b>
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million kilometres</b>			<b>8.9</b>			<b>19.8</b>	<b>28.6</b>

TRAIN MILES USED		
TRAIN MILES each way	PER DAY	PER ANNUM
163	652	169,520
130	260	67,600
130	260	67,600
127	0	-
177	0	-
94	0	-
295	0	-
<b>TOTAL W'DAY</b>	<b>1172</b>	<b>304,720</b>
<b>SATURDAY</b>	<b>293</b>	<b>15,236</b>
<b>Million Train miles</b>		<b>0.32</b>
<b>Million Train Kms</b>		<b>0.51</b>

HINCKLEY NRFI	HGV MILEAGE	INDICATIVE LORRY MILES SAVED	TRAIN MILES
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ASSUMPTIONS

Road miles between Origin and HNRFI HNRFI - Smithy Lane Jn 2 M69.

0.3 of container to / from occupier at HNRFI

70% of container to / from off-site customer of railport

66% of offsite containers continue direction of route (merely mode transfer)

34% of offsite containers backtrack towards origin, increasing overall journey miles

1.60934 Kilometers per Mile

81 Twenty-foot Equivalent Unit/Train Utilisation

1.8 Twenty-foot Equivalent Unit to Containers

15 miles each way average

260 Weekdays

52 Saturdays

	Miles one way	No. trains	TOTAL TEU per w/day (both ways)	Container moves per w/day	ratio container moves to HGV / empty running	ALL HGV Moves per w/day	OCCUPIER HGV Moves per w/day	OFF SITE HGV Moves per w/day	OCCUPIERS			OFF SITE	TOTAL
									OCCUPIER ROAD MILES SAVED per w/day	OFF SITE GROSS ROAD MILES SAVED per w/day	OFF SITE EXTRA CARTAGE MILES [er w/day	OFF SITE NET LORRY MILES SAVED per w/ day	ALL HGV LORRY MILES SAVED per w/day
to and from													
<b>Felixstowe</b>	<b>148</b>	<b>3</b>	486	270	1.35	365	109	255	16,184	37,762	1,301	36,461	52,645
<b>London Gateway</b>	<b>128</b>	<b>1</b>	162	90	1.35	122	36	85	4,666	10,886	434	10,453	15,118
<b>Liverpool Port</b>	<b>128</b>	<b>1</b>	162	90	1.35	122	36	85	4,666	10,886	434	10,453	15,118
Cardiff	138	0	0	0	1.35	0	0	0	-	-	-	-	-
Teesport	187	0	0	0	1.35	0	0	0	-	-	-	-	-
Manchester	108	0	0	0	1.35	0	0	0	-	-	-	-	-
Glasgow	300	0	0	0	1.35	0	0	0	-	-	-	-	-
<b>TOTALS PER WEEKDAY</b>		<b>5</b>	<b>810</b>	<b>450</b>		<b>608</b>	<b>182</b>	<b>425</b>	<b>25,515</b>	<b>59,535</b>	<b>2,169</b>	<b>57,366</b>	<b>82,881</b>
				<b>TRAINS</b>	<b>5</b>	<b>WEEKDAYS</b>	<b>260</b>	Miles Saved PA	6,633,900			14,915,219	21,549,119
				<b>TRAINS</b>	<b>1</b>	<b>Saturdays</b>	<b>52</b>	Miles Saved PA	265,356			596,609	861,965
									6,899,256			15,511,827	22,411,083
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million miles</b>			<b>6.9</b>			<b>15.5</b>	<b>22.4</b>
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million kilometres</b>			<b>11.1</b>			<b>24.9</b>	<b>36</b>

TRAIN MILES USED		
TRAIN MILES each way	PER DAY	PER ANNUM
163	978	254,280
130	260	67,600
130	260	67,600
127	0	-
177	0	-
94	0	-
295	0	-
<b>TOTAL W'DAY</b>	<b>1498</b>	<b>389,480</b>
<b>SATURDAY</b>	<b>299.6</b>	<b>15,579</b>
<b>Million Train miles</b>		<b>0.41</b>
<b>Million Train Kms</b>		<b>0.65</b>

HINCKLEY NRFI	HGV MILEAGE	INDICATIVE LORRY MILES SAVED	TRAIN MILES
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ASSUMPTIONS

Road miles between Origin and HNRFI HNRFI - Smyth Lane Jn 2 M69.

30% of container to / from occupier at HNRFI

70% of container to / from off-site customer of railport

66% of offsite containers continue direction of route (merely mode transfer)

34% of offsite containers backtrack towards origin, increasing overall journey miles

1.60934 Kilometers per Mile

81 Twenty-foot Equivalent Unit/Train Utilisation

1.8 Twenty-foot Equivalent Unit to Containers

15 miles each way average

260 Weekdays

52 Saturdays

	Miles one way	No. trains	TOTAL TEU per w/day (both ways)	Container moves per w/day	ratio container moves to HGV / empty running	ALL HGV Moves per w/day	OCCUPIER HGV Moves per w/day	OFF SITE HGV Moves per w/day	OCCUPIERS			OFF SITE	TOTAL
									OCCUPIER ROAD MILES SAVED per w/day	OFF SITE GROSS ROAD MILES SAVED per w/day	OFF SITE EXTRA CARTAGE MILES [er w/day	OFF SITE NET LORRY MILES SAVED per w/ day	ALL HGV LORRY MILES SAVED per w/day
to and from													
<b>Felixstowe</b>	<b>148</b>	<b>3</b>	486	270	1.35	365	109	255	16,184	37,762	1,301	36,461	52,645
<b>London Gateway</b>	<b>128</b>	<b>2</b>	324	180	1.35	243	73	170	9,331	21,773	868	20,905	30,236
<b>Liverpool Port</b>	<b>128</b>	<b>1</b>	162	90	1.35	122	36	85	4,666	10,886	434	10,453	15,118
Cardiff	138	0	0	0	1.35	0	0	0	-	-	-	-	-
Teesport	187	0	0	0	1.35	0	0	0	-	-	-	-	-
Manchester	108	0	0	0	1.35	0	0	0	-	-	-	-	-
Glasgow	300	0	0	0	1.35	0	0	0	-	-	-	-	-
<b>TOTALS PER WEEKDAY</b>	<b>6</b>	<b>972</b>	<b>540</b>	<b>729</b>	<b>219</b>	<b>510</b>	<b>30,181</b>	<b>70,421</b>	<b>2,603</b>	<b>67,819</b>	<b>97,999</b>		
				<b>TRAINS</b>	<b>6</b>	<b>WEEKDAYS</b>	<b>260</b>	Miles Saved PA	7,846,956			17,632,906	25,479,862
				<b>TRAINS</b>	<b>2</b>	<b>Saturdays</b>	<b>52</b>	Miles Saved PA	523,130			1,175,527	1,698,657
									8,370,086			18,808,433	27,178,520
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million miles</b>	<b>8.4</b>				<b>18.8</b>	<b>27.2</b>	
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million kilometres</b>	<b>13.5</b>				<b>30.3</b>	<b>43.8</b>	

TRAIN MILES USED		
TRAIN MILES each way	PER DAY	PER ANNUM
163	978	254,280
130	520	135,200
130	260	67,600
127	0	-
177	0	-
94	0	-
295	0	-
<b>TOTAL W'DAY</b>	<b>1758</b>	<b>457,080</b>
<b>SATURDAY</b>	<b>586</b>	<b>30,472</b>
<b>Million Train miles</b>		<b>0.49</b>
<b>Million Train Kms</b>		<b>0.78</b>

HINCKLEY NRFI	HGV MILEAGE	INDICATIVE LORRY MILES SAVED	TRAIN MILES
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ASSUMPTIONS

Road miles between Origin and HNRFI HNRFI - Smyth Lane Jn 2 M69.

30% of container to / from occupier at HNRFI

70% of container to / from off-site customer of railport

66% of offsite containers continue direction of route (merely mode transfer)

34% of offsite containers backtrack towards origin, increasing overall journey miles

1.60934 Kilometers per Mile

81 Twenty-foot Equivalent Unit/Train Utilisation

1.8 Twenty-foot Equivalent Unit to Containers

15 miles each way average

260 Weekdays

52 Saturdays

	Miles one way	No. trains	TOTAL TEU per w/day (both ways)	Container moves per w/day	ratio container moves to HGV / empty running	ALL HGV Moves per w/day	OCCUPIER HGV Moves per w/day	OFF SITE HGV Moves per w/day	OCCUPIERS			OFF SITE	TOTAL
									OCCUPIER ROAD MILES SAVED per w/day	OFF SITE GROSS ROAD MILES SAVED per w/day	OFF SITE EXTRA CARTAGE MILES [er w/day	OFF SITE NET LORRY MILES SAVED per w/ day	ALL HGV LORRY MILES SAVED per w/day
to and from													
<b>Felixstowe</b>	<b>148</b>	<b>3</b>	486	270	1.35	365	109	255	16,184	37,762	1,301	36,461	52,645
<b>London Gateway</b>	<b>128</b>	<b>2</b>	324	180	1.35	243	73	170	9,331	21,773	868	20,905	30,236
<b>Liverpool Port</b>	<b>128</b>	<b>1</b>	162	90	1.35	122	36	85	4,666	10,886	434	10,453	15,118
Cardiff	138	0	0	0	1.35	0	0	0	-	-	-	-	-
Teesport	187	0	0	0	1.35	0	0	0	-	-	-	-	-
Manchester	108	0	0	0	1.35	0	0	0	-	-	-	-	-
<b>Glasgow</b>	<b>300</b>	<b>1</b>	162	90	1.35	122	36	85	10,935	25,515	434	25,081	36,016
<b>TOTALS PER WEEKDAY</b>		<b>7</b>	<b>1134</b>	<b>630</b>		<b>851</b>	<b>255</b>	<b>595</b>	<b>41,116</b>	<b>95,936</b>	<b>3,036</b>	<b>92,900</b>	<b>134,016</b>
				<b>TRAINS</b>	<b>7</b>	<b>WEEKDAYS</b>	<b>260</b>	Miles Saved PA	10,690,056			24,154,030	34,844,086
				<b>TRAINS</b>	<b>2</b>	<b>Saturdays</b>	<b>52</b>	Miles Saved PA	610,860			1,380,230	1,991,091
									11,300,916			25,534,260	36,835,177
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million miles</b>			<b>11.3</b>			<b>25.5</b>	<b>36.8</b>
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million kilometres</b>			<b>18.2</b>			<b>41</b>	<b>59.2</b>

TRAIN MILES USED		
TRAIN MILES each way	PER DAY	PER ANNUM
163	978	254,280
130	520	135,200
130	260	67,600
127	0	-
177	0	-
94	0	-
295	590	153,400
<b>TOTAL W'DAY</b>	<b>2348</b>	<b>610,480</b>
<b>SATURDAY</b>	<b>670.857143</b>	<b>34,885</b>
<b>Million Train miles</b>		<b>0.65</b>
<b>Million Train Kms</b>		<b>1.04</b>

**HINCKLEY NRFI      HGV MILEAGE      INDICATIVE LORRY MILES SAVED      TRAIN MILES**

ASSUMPTIONS      Road miles between Origin and HNRFI      HNRFI - Smyth Lane Jn 2 M69.

30% of container to / from occupier at HNRFI

70% of container to / from off-site customer of railport

66% of offsite containers continue direction of route (merely mode transfer)

34% of offsite containers backtrack towards origin, increasing overall journey miles

1.60934 Kilometers per Mile

81 Twenty-foot Equivalent Unit/Train Utilisation

1.8 Twenty-foot Equivalent Unit to Containers

15 miles each way average

260 Weekdays

52 Saturdays

	Miles one way	No. trains	TOTAL TEU per w/day (both ways)	Container moves per w/day	ratio container moves to HGV / empty running	ALL HGV Moves per w/day	OCCUPIER HGV Moves per w/day	OFF SITE HGV Moves per w/day	OCCUPIERS			OFF SITE	TOTAL
									OCCUPIER ROAD MILES SAVED per w/day	OFF SITE GROSS ROAD MILES SAVED per w/day	OFF SITE EXTRA CARTAGE MILES [er w/day]	OFF SITE NET LORRY MILES SAVED per w/ day	ALL HGV LORRY MILES SAVED per w/day
to and from													
<b>Felixstowe</b>	<b>148</b>	<b>4</b>	648	360	1.35	486	146	340	21,578	50,350	1,735	48,615	70,193
<b>London Gateway</b>	<b>128</b>	<b>2</b>	324	180	1.35	243	73	170	9,331	21,773	868	20,905	30,236
<b>Liverpool Port</b>	<b>128</b>	<b>1</b>	162	90	1.35	122	36	85	4,666	10,886	434	10,453	15,118
Cardiff	138	0	0	0	1.35	0	0	0	-	-	-	-	-
Teesport	187	0	0	0	1.35	0	0	0	-	-	-	-	-
Manchester	108	0	0	0	1.35	0	0	0	-	-	-	-	-
<b>Glasgow</b>	<b>300</b>	<b>1</b>	162	90	1.35	122	36	85	10,935	25,515	434	25,081	36,016
<b>TOTALS PER WEEKDAY</b>		<b>8</b>	<b>1296</b>	<b>720</b>		<b>972</b>	<b>292</b>	<b>680</b>	<b>46,510</b>	<b>108,524</b>	<b>3,470</b>	<b>105,054</b>	<b>151,564</b>
				<b>TRAINS</b>	<b>8</b>	<b>WEEKDAYS</b>	260	Miles Saved PA	12,092,652			27,313,978	39,406,630
				<b>TRAINS</b>	<b>3</b>	<b>Saturdays</b>	52	Miles Saved PA	906,949			2,048,548	2,955,497
									12,999,601			29,362,526	42,362,127
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million miles</b>			<b>13</b>			<b>29.4</b>	<b>42.4</b>
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million kilometres</b>			<b>20.9</b>			<b>47.3</b>	<b>68.2</b>

TRAIN MILES USED		
TRAIN MILES each way	PER DAY	PER ANNUM
163	1304	339,040
130	520	135,200
130	260	67,600
127	0	-
177	0	-
94	0	-
295	590	153,400
<b>TOTAL W'DAY</b>	<b>2674</b>	<b>695,240</b>
<b>SATURDAY</b>	<b>1002.75</b>	<b>52,143</b>
<b>Million Train miles</b>		<b>0.75</b>
<b>Million Train Kms</b>		<b>1.20</b>

**HINCKLEY NRFI      HGV MILEAGE      INDICATIVE LORRY MILES SAVED      TRAIN MILES**

ASSUMPTIONS      Road miles between Origin and HNRFI      HNRFI - Smyth Lane Jn 2 M69.

30% of container to / from occupier at HNRFI

70% of container to / from off-site customer of railport

66% of offsite containers continue direction of route (merely mode transfer)

34% of offsite containers backtrack towards origin, increasing overall journey miles

1.60934 Kilometers per Mile

81 Twenty-foot Equivalent Unit/Train Utilisation

1.8 Twenty-foot Equivalent Unit to Containers

15 miles each way average

260 Weekdays

52 Saturdays

	Miles one way	No. trains	TOTAL TEU per w/day (both ways)	Container moves per w/day	ratio container moves to HGV / empty running	ALL HGV Moves per w/day	OCCUPIER HGV Moves per w/day	OFF SITE HGV Moves per w/day	OCCUPIERS			OFF SITE	TOTAL
									OCCUPIER ROAD MILES SAVED per w/day	OFF SITE GROSS ROAD MILES SAVED per w/day	OFF SITE EXTRA CARTAGE MILES [er w/day	OFF SITE NET LORRY MILES SAVED per w/ day	ALL HGV LORRY MILES SAVED per w/day
to and from													
<b>Felixstowe</b>	<b>148</b>	<b>4</b>	648	360	1.35	486	146	340	21,578	50,350	1,735	48,615	70,193
<b>London Gateway</b>	<b>128</b>	<b>2</b>	324	180	1.35	243	73	170	9,331	21,773	868	20,905	30,236
<b>Liverpool Port</b>	<b>128</b>	<b>1</b>	162	90	1.35	122	36	85	4,666	10,886	434	10,453	15,118
Cardiff	138	0	0	0	1.35	0	0	0	-	-	-	-	-
Teesport	187	0	0	0	1.35	0	0	0	-	-	-	-	-
<b>Manchester</b>	<b>108</b>	<b>1</b>	162	90	1.35	122	36	85	3,937	9,185	434	8,752	12,688
<b>Glasgow</b>	<b>300</b>	<b>1</b>	162	90	1.35	122	36	85	10,935	25,515	434	25,081	36,016
<b>TOTALS PER WEEKDAY</b>		<b>9</b>	<b>1458</b>	<b>810</b>		<b>1,094</b>	<b>328</b>	<b>765</b>	<b>50,447</b>	<b>117,709</b>	<b>3,904</b>	<b>113,805</b>	<b>164,252</b>
				<b>TRAINS</b>	<b>9</b>	<b>WEEKDAYS</b>	<b>260</b>	Miles Saved PA	13,116,168			29,589,405	42,705,573
				<b>TRAINS</b>	<b>3</b>	<b>Saturdays</b>	<b>52</b>	Miles Saved PA	874,411			1,972,627	2,847,038
									13,990,579			31,562,032	45,552,612
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million miles</b>			<b>14</b>			<b>31.6</b>	<b>45.6</b>
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million kilometres</b>			<b>22.5</b>			<b>50.9</b>	<b>73.4</b>

TRAIN MILES USED		
TRAIN MILES each way	PER DAY	PER ANNUM
163	1304	339,040
130	520	135,200
130	260	67,600
127	0	-
177	0	-
94	188	48,880
295	590	153,400
<b>TOTAL W'DAY</b>	<b>2862</b>	<b>744,120</b>
<b>SATURDAY</b>	<b>954</b>	<b>49,608</b>
<b>Million Train miles</b>		<b>0.79</b>
<b>Milliom Train Kms</b>		<b>1.28</b>

HINCKLEY NRFI	HGV MILEAGE	INDICATIVE LORRY MILES SAVED	TRAIN MILES
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ASSUMPTIONS

Road miles between Origin and HNRFI HNRFI - Smyth Lane Jn 2 M69.

30% of container to / from occupier at HNRFI

70% of container to / from off-site customer of railport

66% of offsite containers continue direction of route (merely mode transfer)

34% of offsite containers backtrack towards origin, increasing overall journey miles

1.60934 Kilometers per Mile

81 Twenty-foot Equivalent Unit/Train Utilisation

1.8 Twenty-foot Equivalent Unit to Containers

15 miles each way average

260 Weekdays

52 Saturdays

	Miles one way	No. trains	TOTAL TEU per w/day (both ways)	Container moves per w/day	ratio container moves to HGV / empty running	ALL HGV Moves per w/day	OCCUPIER HGV Moves per w/day	OFF SITE HGV Moves per w/day	OCCUPIERS			OFF SITE	TOTAL
									OCCUPIER ROAD MILES SAVED per w/day	OFF SITE GROSS ROAD MILES SAVED per w/day	OFF SITE EXTRA CARTAGE MILES [er w/day	OFF SITE NET LORRY MILES SAVED per w/ day	ALL HGV LORRY MILES SAVED per w/day
to and from													
<b>Felixstowe</b>	<b>148</b>	<b>4</b>	648	360	1.35	486	146	340	21,578	50,350	1,735	48,615	70,193
<b>London Gateway</b>	<b>128</b>	<b>2</b>	324	180	1.35	243	73	170	9,331	21,773	868	20,905	30,236
<b>Liverpool Port</b>	<b>128</b>	<b>1</b>	162	90	1.35	122	36	85	4,666	10,886	434	10,453	15,118
Cardiff	138	0	0	0	1.35	0	0	0	-	-	-	-	-
Teesport	187	0	0	0	1.35	0	0	0	-	-	-	-	-
<b>Manchester</b>	<b>108</b>	<b>1</b>	162	90	1.35	122	36	85	3,937	9,185	434	8,752	12,688
<b>Glasgow</b>	<b>300</b>	<b>2</b>	324	180	1.35	243	73	170	21,870	51,030	868	50,162	72,032
<b>TOTALS PER WEEKDAY</b>		<b>10</b>	<b>1620</b>	<b>900</b>		<b>1,215</b>	<b>365</b>	<b>851</b>	<b>61,382</b>	<b>143,224</b>	<b>4,338</b>	<b>138,887</b>	<b>200,268</b>
				<b>TRAINS</b>	<b>10</b>	<b>WEEKDAYS</b>	<b>260</b>	Miles Saved PA	15,959,268			36,110,529	52,069,797
				<b>TRAINS</b>	<b>4</b>	<b>Saturdays</b>	<b>52</b>	Miles Saved PA	1,276,741			2,888,842	4,165,584
									17,236,009			38,999,371	56,235,381
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million miles</b>			<b>17.2</b>			<b>39</b>	<b>56.2</b>
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million kilometres</b>			<b>27.7</b>			<b>62.8</b>	<b>90.4</b>

TRAIN MILES USED		
TRAIN MILES each way	PER DAY	PER ANNUM
163	1304	339,040
130	520	135,200
130	260	67,600
127	0	-
177	0	-
94	188	48,880
295	1180	306,800
<b>TOTAL W'DAY</b>	<b>3452</b>	<b>897,520</b>
<b>SATURDAY</b>	<b>1380.8</b>	<b>71,802</b>
<b>Million Train miles</b>		<b>0.97</b>
<b>Million Train Kms</b>		<b>1.56</b>

HINCKLEY NRFI	HGV MILEAGE	INDICATIVE LORRY MILES SAVED	TRAIN MILES
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ASSUMPTIONS	Road miles between Origin and HNRFI	HNRFI - Smyth Lane Jn 2 M69.	
	30% of container to / from occupier at HNRFI		81 Twenty-foot Equivalent Unit/Train Utilisation
	70% of container to / from off-site customer of railport		1.8 Twenty-foot Equivalent Unit to Containers
	66% of offsite containers continue direction of route (merely mode transfer)		15 miles each way average
	34% of offsite containers backtrack towards origin, increasing overall journey miles		260 Weekdays
	1.60934 Kilometers per Mile		52 Saturdays

	Miles one way	No. trains	TOTAL TEU per w/day (both ways)	Container moves per w/day	ratio container moves to HGV / empty running	ALL HGV Moves per w/day	OCCUPIER HGV Moves per w/day	OFF SITE HGV Moves per w/day	OCCUPIERS			OFF SITE	TOTAL
									OCCUPIER ROAD MILES SAVED per w/day	OFF SITE GROSS ROAD MILES SAVED per w/day	OFF SITE EXTRA CARTAGE MILES [er w/day	OFF SITE NET LORRY MILES SAVED per w/ day	ALL HGV LORRY MILES SAVED per w/day
to and from													
<b>Felixstowe</b>	<b>148</b>	<b>5</b>	810	450	1.35	608	182	425	26,973	62,937	2,169	60,768	87,741
<b>London Gateway</b>	<b>128</b>	<b>2</b>	324	180	1.35	243	73	170	9,331	21,773	868	20,905	30,236
<b>Liverpool Port</b>	<b>128</b>	<b>1</b>	162	90	1.35	122	36	85	4,666	10,886	434	10,453	15,118
Cardiff	138	0	0	0	1.35	0	0	0	-	-	-	-	-
Teesport	187	0	0	0	1.35	0	0	0	-	-	-	-	-
<b>Manchester</b>	<b>108</b>	<b>1</b>	162	90	1.35	122	36	85	3,937	9,185	434	8,752	12,688
<b>Glasgow</b>	<b>300</b>	<b>2</b>	324	180	1.35	243	73	170	21,870	51,030	868	50,162	72,032
<b>TOTALS PER WEEKDAY</b>		<b>11</b>	<b>1782</b>	<b>990</b>		<b>1,337</b>	<b>401</b>	<b>936</b>	<b>66,776</b>	<b>155,812</b>	<b>4,771</b>	<b>151,040</b>	<b>217,817</b>
				<b>TRAINS</b>	<b>11</b>	<b>WEEKDAYS</b>	<b>260</b>	<b>Miles Saved PA</b>	<b>17,361,864</b>			<b>39,270,477</b>	<b>56,632,341</b>
				<b>TRAINS</b>	<b>4</b>	<b>Saturdays</b>	<b>52</b>	<b>Miles Saved PA</b>	<b>1,262,681</b>			<b>2,856,035</b>	<b>4,118,716</b>
									<b>18,624,545</b>			<b>42,126,511</b>	<b>60,751,056</b>
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million miles</b>			<b>18.6</b>			<b>42.1</b>	<b>60.8</b>
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million kilometres</b>			<b>29.9</b>			<b>67.8</b>	<b>97.8</b>

TRAIN MILES USED		
TRAIN MILES each way	PER DAY	PER ANNUM
163	1630	423,800
130	520	135,200
130	260	67,600
127	0	-
177	0	-
94	188	48,880
295	1180	306,800
<b>TOTAL W'DAY</b>	<b>3778</b>	<b>982,280</b>
<b>SATURDAY</b>	<b>1373.81818</b>	<b>71,439</b>
<b>Million Train miles</b>		<b>1.05</b>
<b>Million Train Kms</b>		<b>1.70</b>



**HINCKLEY NRFI      HGV MILEAGE      INDICATIVE LORRY MILES SAVED      TRAIN MILES**

ASSUMPTIONS      Road miles between Origin and HNRFI      HNRFI - Smyth Lane Jn 2 M69.

30% of container to / from occupier at HNRFI

70% of container to / from off-site customer of railport

66% of offsite containers continue direction of route (merely mode transfer)

34% of offsite containers backtrack towards origin, increasing overall journey miles

1.60934 Kilometers per Mile

81 Twenty-foot Equivalent Unit/Train Utilisation

1.8 Twenty-foot Equivalent Unit to Containers

15 miles each way average

260 Weekdays

52 Saturdays

	Miles one way	No. trains	TOTAL TEU per w/day (both ways)	Container moves per w/day	ratio container moves to HGV / empty running	ALL HGV Moves per w/day	OCCUPIER HGV Moves per w/day	OFF SITE HGV Moves per w/day	OCCUPIERS			OFF SITE	TOTAL
									OCCUPIER ROAD MILES SAVED per w/day	OFF SITE GROSS ROAD MILES SAVED per w/day	OFF SITE EXTRA CARTAGE MILES [er w/day	OFF SITE NET LORRY MILES SAVED per w/ day	ALL HGV LORRY MILES SAVED per w/day
to and from													
<b>Felixstowe</b>	<b>148</b>	<b>5</b>	810	450	1.35	608	182	425	26,973	62,937	2,169	60,768	87,741
<b>London Gateway</b>	<b>128</b>	<b>3</b>	486	270	1.35	365	109	255	13,997	32,659	1,301	31,358	45,355
<b>Liverpool Port</b>	<b>128</b>	<b>1</b>	162	90	1.35	122	36	85	4,666	10,886	434	10,453	15,118
Cardiff	138	0	0	0	1.35	0	0	0	-	-	-	-	-
Teesport	187	0	0	0	1.35	0	0	0	-	-	-	-	-
<b>Manchester</b>	<b>108</b>	<b>1</b>	162	90	1.35	122	36	85	3,937	9,185	434	8,752	12,688
<b>Glasgow</b>	<b>300</b>	<b>2</b>	324	180	1.35	243	73	170	21,870	51,030	868	50,162	72,032
<b>TOTALS PER WEEKDAY</b>		<b>12</b>	<b>1944</b>	<b>1080</b>		<b>1,458</b>	<b>437</b>	<b>1,021</b>	<b>71,442</b>	<b>166,698</b>	<b>5,205</b>	<b>161,493</b>	<b>232,935</b>
				<b>TRAINS</b>	<b>12</b>	<b>WEEKDAYS</b>	<b>260</b>	Miles Saved PA	18,574,920			41,988,164	60,563,084
				<b>TRAINS</b>	<b>4</b>	<b>Saturdays</b>	<b>52</b>	Miles Saved PA	1,238,328			2,799,211	4,037,539
									19,813,248			44,787,375	64,600,623
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million miles</b>			<b>19.8</b>			<b>44.8</b>	<b>64.6</b>
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million kilometres</b>			<b>31.9</b>			<b>72.1</b>	<b>104</b>

TRAIN MILES USED		
TRAIN MILES each way	PER DAY	PER ANNUM
163	1630	423,800
130	780	202,800
130	260	67,600
127	0	-
177	0	-
94	188	48,880
295	1180	306,800
<b>TOTAL W'DAY</b>	<b>4038</b>	<b>1,049,880</b>
<b>SATURDAY</b>	<b>1346</b>	<b>69,992</b>
<b>Million Train miles</b>		<b>1.12</b>
<b>Milliom Train Kms</b>		<b>1.80</b>

**HINCKLEY NRFI      HGV MILEAGE      INDICATIVE LORRY MILES SAVED      TRAIN MILES**

ASSUMPTIONS      Road miles between Origin and HNRFI      HNRFI - Smythy Lane Jn 2 M69.  
 30% of container to / from occupier at HNRFI  
 70% of container to / from off-site customer of railport  
 66% of offsite containers continue direction of route (merely mode transfer)  
 34% of offsite containers backtrack towards origin, increasing overall journey miles  
 1.60934 Kilometers per Mile

81 Twenty-foot Equivalent Unit/Train Utilisation  
 1.8 Twenty-foot Equivalent Unit to Containers  
 15 miles each way average  
 260 Weekdays  
 52 Saturdays

	Miles one way	No. trains	TOTAL TEU per w/day (both ways)	Container moves per w/day	ratio container moves to HGV / empty running	ALL HGV Moves per w/day	OCCUPIER HGV Moves per w/day	OFF SITE HGV Moves per w/day	OCCUPIERS			OFF SITE	TOTAL
									OCCUPIER ROAD MILES SAVED per w/day	OFF SITE GROSS ROAD MILES SAVED per w/day	OFF SITE EXTRA CARTAGE MILES [er w/day	OFF SITE NET LORRY MILES SAVED per w/ day	ALL HGV LORRY MILES SAVED per w/day
to and from													
<b>Felixstowe</b>	<b>148</b>	<b>5</b>	810	450	1.35	608	182	425	26,973	62,937	2,169	60,768	87,741
<b>London Gateway</b>	<b>128</b>	<b>3</b>	486	270	1.35	365	109	255	13,997	32,659	1,301	31,358	45,355
<b>Liverpool Port</b>	<b>128</b>	<b>1</b>	162	90	1.35	122	36	85	4,666	10,886	434	10,453	15,118
Cardiff	138	0	0	0	1.35	0	0	0	-	-	-	-	-
Teesport	187	1	162	90	1.35	122	36	85	6,816	15,904	434	15,471	22,287
<b>Manchester</b>	<b>108</b>	<b>1</b>	162	90	1.35	122	36	85	3,937	9,185	434	8,752	12,688
<b>Glasgow</b>	<b>300</b>	<b>2</b>	324	180	1.35	243	73	170	21,870	51,030	868	50,162	72,032
<b>TOTALS PER WEEKDAY</b>		<b>13</b>	<b>2106</b>	<b>1170</b>		<b>1,580</b>	<b>474</b>	<b>1,106</b>	<b>78,258</b>	<b>182,602</b>	<b>5,639</b>	<b>176,964</b>	<b>255,222</b>
				<b>TRAINS</b>	<b>13</b>	<b>WEEKDAYS</b>	<b>260</b>	Miles Saved PA	20,347,119			46,010,519	66,357,638
				<b>TRAINS</b>	<b>4</b>	<b>Saturdays</b>	<b>52</b>	Miles Saved PA	1,252,130			2,831,417	4,083,547
									21,599,249			48,841,936	70,441,185
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million miles</b>			<b>21.6</b>			<b>48.8</b>	<b>70.4</b>
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million kilometres</b>			<b>34.8</b>			<b>78.5</b>	<b>113.3</b>

TRAIN MILES USED		
TRAIN MILES each way	PER DAY	PER ANNUM
163	1630	423,800
130	780	202,800
130	260	67,600
127	0	-
177	354	92,040
94	188	48,880
295	1180	306,800
<b>TOTAL W'DAY</b>	<b>4392</b>	<b>1,141,920</b>
<b>SATURDAY</b>	<b>1351.38462</b>	<b>70,272</b>
<b>Million Train miles</b>		<b>1.21</b>
<b>Million Train Kms</b>		<b>1.95</b>

**HINCKLEY NRFI      HGV MILEAGE      INDICATIVE LORRY MILES SAVED      TRAIN MILES**

ASSUMPTIONS      Road miles between Origin and HNRFI      HNRFI - Smyth Lane Jn 2 M69.

30% of container to / from occupier at HNRFI

70% of container to / from off-site customer of railport

66% of offsite containers continue direction of route (merely mode transfer)

34% of offsite containers backtrack towards origin, increasing overall journey miles

1.60934 Kilometers per Mile

81 Twenty-foot Equivalent Unit/Train Utilisation

1.8 Twenty-foot Equivalent Unit to Containers

15 miles each way average

260 Weekdays

52 Saturdays

	Miles one way	No. trains	TOTAL TEU per w/day (both ways)	Container moves per w/day	ratio container moves to HGV / empty running	ALL HGV Moves per w/day	OCCUPIER HGV Moves per w/day	OFF SITE HGV Moves per w/day	OCCUPIERS			OFF SITE	TOTAL
									OCCUPIER ROAD MILES SAVED per w/day	OFF SITE GROSS ROAD MILES SAVED per w/day	OFF SITE EXTRA CARTAGE MILES [er w/day	OFF SITE NET LORRY MILES SAVED per w/ day	ALL HGV LORRY MILES SAVED per w/day
to and from													
<b>Felixstowe</b>	<b>148</b>	<b>5</b>	810	450	1.35	608	182	425	26,973	62,937	2,169	60,768	87,741
<b>London Gateway</b>	<b>128</b>	<b>3</b>	486	270	1.35	365	109	255	13,997	32,659	1,301	31,358	45,355
<b>Liverpool Port</b>	<b>128</b>	<b>2</b>	324	180	1.35	243	73	170	9,331	21,773	868	20,905	30,236
Cardiff	138	0	0	0	1.35	0	0	0	-	-	-	-	-
Teesport	187	1	162	90	1.35	122	36	85	6,816	15,904	434	15,471	22,287
<b>Manchester</b>	<b>108</b>	<b>1</b>	162	90	1.35	122	36	85	3,937	9,185	434	8,752	12,688
<b>Glasgow</b>	<b>300</b>	<b>2</b>	324	180	1.35	243	73	170	21,870	51,030	868	50,162	72,032
<b>TOTALS PER WEEKDAY</b>		<b>14</b>	<b>2268</b>	<b>1260</b>		<b>1,701</b>	<b>510</b>	<b>1,191</b>	<b>82,924</b>	<b>193,489</b>	<b>6,073</b>	<b>187,416</b>	<b>270,340</b>
				<b>TRAINS</b>	<b>14</b>	<b>WEEKDAYS</b>	<b>260</b>	Miles Saved PA	21,560,175			48,728,207	70,288,382
				<b>TRAINS</b>	<b>4</b>	<b>Saturdays</b>	<b>52</b>	Miles Saved PA	1,232,010			2,784,469	4,016,479
									22,792,185			51,512,676	74,304,861
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million miles</b>			<b>22.8</b>			<b>51.5</b>	<b>74.3</b>
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million kilometres</b>			<b>36.7</b>			<b>82.9</b>	<b>119.6</b>

TRAIN MILES USED		
TRAIN MILES each way	PER DAY	PER ANNUM
163	1630	423,800
130	780	202,800
130	520	135,200
127	0	-
177	354	92,040
94	188	48,880
295	1180	306,800
<b>TOTAL W'DAY</b>	<b>4652</b>	<b>1,209,520</b>
<b>SATURDAY</b>	<b>1329.14286</b>	<b>69,115</b>
<b>Million Train miles</b>		<b>1.28</b>
<b>Million Train Kms</b>		<b>2.06</b>

**HINCKLEY NRFI      HGV MILEAGE      INDICATIVE LORRY MILES SAVED      TRAIN MILES**

ASSUMPTIONS      Road miles between Origin and HNRFI      HNRFI - Smythy Lane Jn 2 M69.  
 30% of container to / from occupier at HNRFI  
 70% of container to / from off-site customer of railport  
 66% of offsite containers continue direction of route (merely mode transfer)  
 34% of offsite containers backtrack towards origin, increasing overall journey miles  
 1.60934 Kilometers per Mile

81 Twenty-foot Equivalent Unit/Train Utilisation  
 1.8 Twenty-foot Equivalent Unit to Containers  
 15 miles each way average  
 260 Weekdays  
 52 Saturdays

	Miles one way	No. trains	TOTAL TEU per w/day (both ways)	Container moves per w/day	ratio container moves to HGV / empty running	ALL HGV Moves per w/day	OCCUPIER HGV Moves per w/day	OFF SITE HGV Moves per w/day	OCCUPIERS			OFF SITE	TOTAL
									OCCUPIER ROAD MILES SAVED per w/day	OFF SITE GROSS ROAD MILES SAVED per w/day	OFF SITE EXTRA CARTAGE MILES [er w/day	OFF SITE NET LORRY MILES SAVED per w/ day	ALL HGV LORRY MILES SAVED per w/day
to and from													
<b>Felixstowe</b>	<b>148</b>	<b>6</b>	972	540	1.35	729	219	510	32,368	75,524	2,603	72,922	105,289
<b>London Gateway</b>	<b>128</b>	<b>3</b>	486	270	1.35	365	109	255	13,997	32,659	1,301	31,358	45,355
<b>Liverpool Port</b>	<b>128</b>	<b>2</b>	324	180	1.35	243	73	170	9,331	21,773	868	20,905	30,236
Cardiff	138	0	0	0	1.35	0	0	0	-	-	-	-	-
Teesport	187	1	162	90	1.35	122	36	85	6,816	15,904	434	15,471	22,287
<b>Manchester</b>	<b>108</b>	<b>1</b>	162	90	1.35	122	36	85	3,937	9,185	434	8,752	12,688
<b>Glasgow</b>	<b>300</b>	<b>2</b>	324	180	1.35	243	73	170	21,870	51,030	868	50,162	72,032
<b>TOTALS PER WEEKDAY</b>		<b>15</b>	<b>2430</b>	<b>1350</b>		<b>1,823</b>	<b>547</b>	<b>1,276</b>	<b>88,318</b>	<b>206,076</b>	<b>6,506</b>	<b>199,570</b>	<b>287,888</b>
				<b>TRAINS</b>	<b>15</b>	<b>WEEKDAYS</b>	<b>260</b>	Miles Saved PA	22,962,771			51,888,155	74,850,926
				<b>TRAINS</b>	<b>4</b>	<b>Saturdays</b>	<b>52</b>	Miles Saved PA	1,224,681			2,767,368	3,992,049
									24,187,452			54,655,523	78,842,975
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million miles</b>			<b>24.2</b>			<b>54.7</b>	<b>78.8</b>
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million kilometres</b>			<b>38.9</b>			<b>88</b>	<b>126.8</b>

TRAIN MILES USED		
TRAIN MILES each way	PER DAY	PER ANNUM
163	1956	508,560
130	780	202,800
130	520	135,200
127	0	-
177	354	92,040
94	188	48,880
295	1180	306,800
<b>TOTAL W'DAY</b>	<b>4978</b>	<b>1,294,280</b>
<b>SATURDAY</b>	<b>1327.46667</b>	<b>69,028</b>
<b>Million Train miles</b>		<b>1.36</b>
<b>Million Train Kms</b>		<b>2.19</b>

HINCKLEY NRFI	HGV MILEAGE	INDICATIVE LORRY MILES SAVED	TRAIN MILES
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ASSUMPTIONS

Road miles between Origin and HNRFI HNRFI - Smythy Lane Jn 2 M69.

30% of container to / from occupier at HNRFI

70% of container to / from off-site customer of railport

66% of offsite containers continue direction of route (merely mode transfer)

34% of offsite containers backtrack towards origin, increasing overall journey miles

1.60934 Kilometers per Mile

81 Twenty-foot Equivalent Unit/Train Utilisation

1.8 Twenty-foot Equivalent Unit to Containers

15 miles each way average

260 Weekdays

52 Saturdays

	Miles one way	No. trains	TOTAL TEU per w/day (both ways)	Container moves per w/day	ratio container moves to HGV / empty running	ALL HGV Moves per w/day	OCCUPIER HGV Moves per w/day	OFF SITE HGV Moves per w/day	OCCUPIERS			OFF SITE	TOTAL
									OCCUPIER ROAD MILES SAVED per w/day	OFF SITE GROSS ROAD MILES SAVED per w/day	OFF SITE EXTRA CARTAGE MILES [er w/day	OFF SITE NET LORRY MILES SAVED per w/ day	ALL HGV LORRY MILES SAVED per w/day
to and from													
Felixstowe	148	6	972	540	1.35	729	219	510	32,368	75,524	2,603	72,922	105,289
London Gateway	128	3	486	270	1.35	365	109	255	13,997	32,659	1,301	31,358	45,355
Liverpool Port	128	2	324	180	1.35	243	73	170	9,331	21,773	868	20,905	30,236
Cardiff	138	1	162	90	1.35	122	36	85	5,030	11,737	434	11,303	16,333
Teesport	187	1	162	90	1.35	122	36	85	6,816	15,904	434	15,471	22,287
Manchester	108	1	162	90	1.35	122	36	85	3,937	9,185	434	8,752	12,688
Glasgow	300	2	324	180	1.35	243	73	170	21,870	51,030	868	50,162	72,032
<b>TOTALS PER WEEKDAY</b>		<b>16</b>	<b>2592</b>	<b>1440</b>		<b>1,944</b>	<b>583</b>	<b>1,361</b>	<b>93,348</b>	<b>217,813</b>	<b>6,940</b>	<b>210,873</b>	<b>304,221</b>
				TRAINS	16	WEEKDAYS	260	Miles Saved PA	24,270,597			54,826,972	79,097,569
				TRAINS	4	Saturdays	52	Miles Saved PA	1,213,530			2,741,349	3,954,878
									25,484,127			57,568,321	83,052,448
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million miles</b>			<b>25.5</b>			<b>57.6</b>	<b>83.1</b>
<b>TOTALS PER ANNUM</b>						<b>LORRY MILES SAVED PER ANNUM approx million kilometres</b>			<b>41</b>			<b>92.7</b>	<b>133.7</b>

TRAIN MILES USED		
TRAIN MILES each way	PER DAY	PER ANNUM
163	1956	508,560
130	780	202,800
130	520	135,200
127	254	66,040
177	354	92,040
94	188	48,880
295	1180	306,800
<b>TOTAL W'DA'</b>	<b>5232</b>	<b>1,360,320</b>
<b>SATURDAY</b>	<b>1308</b>	<b>68,016</b>
<b>Million Train miles</b>		<b>1.43</b>
<b>Milliom Train Kms</b>		<b>2.30</b>