Request		Response
Information a)	Traffic data used in the assessment for Base, DM and DS (including raw data and any data as processed for emissions calculations) in excel format	Supporting documents that include traffic data for all scenarios, in a format relevant to the EFT and traffic network shapefiles, can be downloaded from the link as published with our consultation documents: <u>http://jeg-aces.s3-website-eu-west-1.amazonaws.com/</u> .
		The traffic data provided can be adjusted to the 'raw traffic data' format by extracting the period traffic flow and speed and then summing the (% rigid HGV, % Artic HGV and % bus and coach).
Information b)	Any accompanying traffic report which describes the assumptions and approach utilised to provide the traffic data used in the air quality assessment	No accompanying report is available. However, the traffic data used are provided (see above) and the dynamic modelling approach is described within the methodology.
Information c)	Emissions calculations in EFT spreadsheets;	The emission rates used within the assessment can be reproduced using the traffic data made available in the supporting documents (see above) and EFT V6.0.2 – available from <u>http://laqm.defra.gov.uk/review-and-</u> assessment/tools/emissions-factors-toolkit.html.
Information d)	Dispersion model road alignment (in ESRI shapefile format)	The road alignments of existing roads have been established using the Ordnance Survey's Integrated Transport Network (ITN). The ITN layer used is subject to licensing agreements and cannot be redistributed; it can be purchased directly from Ordnance Survey. The proposed road alignments have been established based on the Heathrow ENR Saturn network available within the published AQ assessment report and supporting documents.
Information e)	Receptor locations modelled (in ESRI shapefile format) including details of which of those are within 200m of proposed links modelled as straight lines, the baseline, do minimum and do something concentration predictions, together with a breakdown of the NOx contribution from different sources.	The modelled receptors locations can be derived by following the methodology set out within Section 3.4 of the published Report.
Technical a)	Have receptors considered been filtered for being relevant receptors or have all address layer data points within the study area been included in the modelling and reporting of results as in Tables 6.6?	Only receptors which meet the criteria described within Section 3.4 of the Report have been included in Table 6.6
Technical b) Technical	On Bath Road (A4) there are predicted delays to achieving compliance as a result of the proposed LHR-ENR scheme. Can it be explained what airport sources/additional number of road traffic vehicles are driving these changes? Please could we see an explanation of	An assessment of the relative source contributions to the predicted concentrations at PCM links on Bath Road was not undertaken. This was not deemed necessary for the Report, but an approximation may be derived through reference to receptor ENR-L in the source apportionment table (Table 6.5). This is a typographical error in the Table only, duly
c)	how the minimum/maximum benefit	noted.

	from mitigation measures has been	
	calculated in Table 6.16? When adding the potential changes as a result of the additional mitigation outlined in the	The correct range should actually be -4.45 to -5.65 $\mu\text{g}/\text{m}^3$
	table it totals a benefit ranging from -	The upper bound is not, however, 6.05 μ g/m ³
	4.45 to -6.05 µg/m ³ , whereas at the	as both LEZ benefits are not available at the same
	end of Table 6.16 a range of -2.5 to -	time.
	3.9 µg/m^3 has been presented.	
Technical	Please can you confirm whether the	Receptors were explicitly modelled at a distance of
d)	predicted incremental changes in concentration along PCM links has been calculated through dispersion modelling of hypothetical receptor	4m from the kerb. IAN175 guidance acknowledges that it is not practical to specifically model receptors at 4 m from the roadside across an <i>extensive</i> highways network; therefore, an alternative approach is outlined with respect to available
	from the DM and DS at the nearest	approach is outlined with respect to available
	relevant recenter location to the PCM	receptor locations produced for a local air quality
	link? Following the guidance document	assessment, as a proxy.
	the change should be calculated using	For this study, only a limited number of road links
	the nearest relevant receptor.	were required for assessment and therefore receptors were modelled at 4m from the road.
Technical	Can you please confirm where the	The hold gueues were modelled on the parallel
e)	runway-end hold queues have been	taxiways to the south of the northern and extended
-	modelled along the ENR runway?	northern runway ends.
Technical f)	Please can you provide further detail of the assumption of 'two-thirds	An assumption has been made that during westerly operations, the southern runway will be operated in
	departure with Heathrow ENR during all westerly operations"?	mixed mode, the ENR will be used for departures only and the northern runway for arrivals only. The ENR, due to its use for departures only, is assumed to handle 2/3 of all westerly departures, with the
		southern runway handling the final third of westerly
Tashuisal	Convey places confirm what is meant	departures.
a)	by the phrase (the surface access	forecasts for both the with and without scheme have
8/	modal share and traffic volumes	been used within the dynamic traffic models. The 38-
	assumed in this assessment have been	50% modal share is the scheme promoters and has
	built into the dynamic modelling' in	not been used within the dynamic traffic model. The
	reference to mitigation measure 1 for	independent modal share predicted an increase in
	the FNR scheme "the modal shift of	nassengers accessing Heathrow FNR by public
	38-50% of passengers from cars to	transport. This modal share has been used to
	public transport access to the airport"?	produce the without and with Heathrow ENR traffic
	We are not completely clear which	data. Therefore the embedded "mitigations" impact
	surface access modal share has been	on concentrations can be observed within the results.
	modelled.	
		The mitigation of further increased modal shift
		(through a "no growth in road traffic above DM"
		scenario) is considered as a sensitivity only.
Technical	In the baseline conditions section	The methodology used to derive 2009 background
h)	Defra PCM concentrations are	1km ² is described in Appendix A of the Report.
	presented for 2009. Within the most	
	recent version of the PCM network	The 2009 PCM roadside concentrations were derived
	provided by Defra the earliest year of	from a dataset held by Jacobs, previously provided by
	concentration data is 2011. Where has	Detra.
	the 09 data come from? Has it been	
	back calculated from a later year? If so	
	now has this been completed?	