							raction Substations Site Selection - Sifting	
				Ÿ				
ı				Hazelhatch				
			Requirements	-Compliance with tolerance of Power Study -Proximity to the railway -Accessibility to the public road network				
				Intervention	Assessment			
				=	-	-		
	Option 0: Do Nothing		Feasibility	Provide power distribution for traction power Constructability Safety	Leave As Is			Electrification of project not achieved without substations
		Engineering	Requirements	Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network			Fail	Non-compliance with the power study
		Economy Environment	I	nvestment guidelines and programme for DART+				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiance.
(PC 2)	Option 1:		Feasibility	Provide power distribution for traction power Constructability Safety	Construct traction power substation			Feasible OK
Options Level 1 (PC 2)		Engineering	Requirements	Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network			Pass	Located within Power Study modelling tolerance Located adjacent to the proposed SLOW lines Public road accessible, adjacent to station carpark.
Opt		Economy Environment	I	nvestment guidelines and programme for DART+				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiance.
		Engineering	Feasibility	Provide power distribution for traction power Constructability Safety		•	Fail	Feasible OK
	Option 2:	Engineering	Requirements	Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network	Construct traction power substation		rall	Located outside Power Study modelling tolerance Located adjacent to the proposed SLOW lines Public road accessible via existing maintenance track.
		Economy Environment	I	nvestment guidelines and programme for DART+				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiance.

Hazelhatch - Substation Location Sifting Process Backup

				Traction Substations Site Selection - Sifting				
			Adamstown					
		Requirements	-Compliance with tolerance of Power Study -Proximity to the railway -Accessibility to the public road network					
				Intervention		Assessment		
			-					
		Facaibilita	Provide power distribution for traction power	y Y Leave As Is y			Electrification of project not achieved without substations	
		Feasibility	Constructability					
	Engineering		Safety Compliance with tolerance of Power Study			Fail	Non-compliance with the power study	
Option 0: Do Nothing		Requirements	Proximity to the railway				Non-compliance with the power study	
			Accessibility to the public road network					
	Economy		Investment guidelines and programme for DART+				Compatible with the investment guidelines and programme for DART+	
	Environment						No impact on Environmental sites of National of International signifiance.	
		Feasibility	Provide power distribution for traction power	Construct traction power substation				
			Constructability				Feasible	
			Safety				ок	
	Engineering	Requirements	Compliance with tolerance of Power Study			Pass	Located within Power Study modelling tolerance	
Option 1:			Proximity to the railway				Located adjacent to the proposed SLOW lines	
			Accessibility to the public road network				Public road accessible via adjacent private property, will require constuction of access road.	
	Economy		Investment guidelines and programme for DART+				Compatible with the investment guidelines and programme for DART+	
	Environment						No impact on Environmental sites of National of International signifiance.	
		Feasibility	Provide power distribution for traction power	Construct traction power substation				
			Constructability				Feasible	
			Safety				ок	
	Engineering	Requirements	Compliance with tolerance of Power Study			Pass	Located within Power Study modelling tolerance	
Option 2:			Proximity to the railway				Located adjacent to the proposed FAST lines	
			Accessibility to the public road network				Public road accessible via existing IE-owned track. Will require track separation to permit ESB access	
	Economy		Investment guidelines and programme for DART+				Compatible with the investment guidelines and programme for DART+	
	Environment						No impact on Environmental sites of National of International signifiance.	

Adamstown - Substation Location Sifting Process Backup

					Traction Substations Site Selection - Sifting				
					Kishoge				
	Requirements -				-Compliance with tolerance of Power Study -Proximity to the railway -Accessibility to the public road network				
					Intervention Assessment				
					-	-	-		
	Option 0: Do Nothing	Engineering	Feasibility	Provide power distribution for traction power Constructability Safety			Fail	Electrification of project not achieved without substations	
			Requirements	Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network	Leave As Is			Non-compliance with the power study	
		Economy Environment		Investment guidelines and programme for DART+				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiance.	
•	Option 1:	Engineering	Feasibility	Provide power distribution for traction power Constructability Safety	Construct traction power substation		Pass	Feasible OK	
رد 2)			Requirements	Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network				Located within Power Study modelling tolerance Located adjacent to the proposed FAST lines Public road accessible via adjacent private property	
/el 1 (I		Economy Environment		Investment guidelines and programme for DART+			Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiance.		
Options Level 1 (PC 2)	Option 2:	Engineering	Feasibility	Provide power distribution for traction power Constructability Safety	y Construct traction power y substation	•	Pass	Feasible OK	
			Requirements	Accessibility to the public road network		0	1 433	Located within Power Study modelling tolerance Located adjacent to the proposed FAST lines Public road immediately adjacent	
		Economy Environment		Investment guidelines and programme for DART+				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiance.	
	Option 3:	Engineering	Feasibility	Provide power distribution for traction power Constructability Safety	Construct traction power substation	•••	Pass	Feasible OK	
		266	Requirements	Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network		0	1 433	Located within Power Study modelling tolerance Located adjacent to the proposed SLOW lines Public road accessible via adjacent private property	
		Economy Environment		Investment guidelines and programme for DART+				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiance.	

Kishoge - Substation Location Sifting Process Backup

				Traction Substations Site Selection - Sifting					
			ParkWest						
	Requirements -				-Compliance with tolerance of Power Study -Proximity to the railway -Accessibility to the public road network				
					Assessment				
				-	-	-			
Option 0: Do	Engineering	Feasibility	Provide power distribution for traction power Constructability Safety Compliance with tolerance of Power Study	y Y Y Leave As Is k		Fail	Electrification of project not achieved without substations Non-compliance with the power study		
Nothing	Fconomy	Requirements	Proximity to the railway Accessibility to the public road network Investment guidelines and programme for DART+				Compatible with the investment guidelines and programme for DART+		
	Economy Environment		investment guidelines and programme for DART+				No impact on Environmental sites of National of International signifiance.		
	Engineering	Feasibility	Provide power distribution for traction power Constructability Safety	/ / Construct traction power / substation	0	Pass	Feasible OK		
Option 1:		Requirements	Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network		0		Located within Power Study modelling tolerance Located adjacent to the proposed SLOW lines Public road immediately adjacent		
	Economy Environment		Investment guidelines and programme for DART+				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiance.		
Option 2:	Engineering	Feasibility Requirements	Provide power distribution for traction power Constructability Safety Compliance with tolerance of Power Study Proximity to the railway	Construct traction power substation		Fail	Feasible OK Located within Power Study modelling tolerance Located >50m from propsoed FAST lines		
	Economy Environment		Accessibility to the public road network Investment guidelines and programme for DART+				Public road accessible via adjacent residential development Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiance.		
	Engineering	Feasibility	Provide power distribution for traction power Constructability Safety	Construct traction power substation	0	Pass	Feasible OK		
Option 3:		Requirements	Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network			. 433	Located within Power Study modelling tolerance Located within 50m of proposed FAST lines Public road accessible via adjacent commercial development		
	Economy Environment		Investment guidelines and programme for DART+				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiance.		
	Engineering	Feasibility	Provide power distribution for traction power Constructability Safety	Construct traction power substation	0	Pass	Feasible OK		
Option 4:	Linguisecring	Requirements	Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network			F 455	Located within Power Study modelling tolerance Located adjacent to the proposed FAST lines Public road accessible via adjacent commercial development		
	Economy Environment		Investment guidelines and programme for DART+				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiance.		

ParkWest - Substation Location Sifting Process Backup