




				Traction Substations Site Selection - Sifting				
				Kylemore				
				Intervention		Assessment		
				-	-	-		
				Requirements -Compliance with tolerance of Power Study -Proximity to the railway -Accessibility to the public road network				
Options Level 1 (PC 2)	Option 0: Do Nothing	Engineering	Feasibility	Provide power distribution for traction power Constructability Safety	Leave As Is		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				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 signifiacnce.				
Option 1:	Engineering	Feasibility	Provide power distribution for traction power Constructability Safety	Construct traction power substation		Fail	Feasible OK Located outside Power Study modelling tolerance Located adjacent to the proposed FAST lines Public road immediately adjacent	
		Requirements	Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network				Would require the acquisition and demolition of a commerical unit, adjacent to the site, insufficient space on the site. More expensive when compared to Option 2. No impact on Environmental sites of National of International signifiacnce.	
Economy Environment	Investment guidelines and programme for DART+							
Option 2:	Engineering	Feasibility	Provide power distribution for traction power Constructability Safety	Construct traction power substation		Pass	Feasible OK within modelling tolerance per Power Study Located adjacent to the proposed FAST lines Accessible from public road network	
		Requirements	Compliance with tolerance of Power Study Proximity to the railway Accessibility to the public road network				Compatible with the investment guidelines and programme for DART+ No impact on Environmental sites of National of International signifiacnce.	
Economy Environment	Investment guidelines and programme for DART+							