Plant Status No: 2020-260

Substation Civils Re-Opener Basic Project Investment Paper

Author	Steve Barnett	Date Started	14/06/2022
Reference Number	2020-260		

1. Scheme Summary by Regulatory Category

Unique Identifier	Site	Asset	RIIO Financial Category	Output Year	Total Costs (£m)
2020-260	Jordanthorpe 275kV Substation	Access Road	Roads	2025	

2. Driver Summary

Project Overview

Access to Jordanthorpe Sub Station is from the Sheffield outer ring road, which is a dual carriageway. The geometry of the access road is such that it is not possible to turn into the access road from the nearside carriageway. Instead, vehicles are required to access from the far carriageway, turning through a gap in the central reservation and crossing the near carriageway in the face of oncoming vehicles.

This project is to alter the geometry of the access road to permit direct access from the near carriageway and avoid vehicles obstructing a lane of the dual carriageway whilst waiting to turn.

Plant Status Link:

2020-260

Scope Diagram/Photographs



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3. Project Summary

Overview To rebuild the access road entrance, improving the geometry and allowing vehicles to left into the site from the adjacent carriageway, rather than cross the central reservation and carriageway having travelled from the far carriageway			
Programme/Duration	4 months		
Outage Requirements & Ops Resource	The works will be undertaken by the highway authority, Sheffield city Council. Little interaction with Ops is anticipated.		
Key Risks and Hazards	The works are to take place in the carriageway of a high speed road. Significant traffic management measures will be required to protect the site and personnel from vehicles.		
Design to Be Resolved	Detailed design is yet to be undertaken, but will be based on existing outline designs prepared by Sheffield City Council's Highways Department		
Development Strategy/Interacting Works	N/A as work is due to take place on the highway outside of the substation.		
Assets In Ellipse:	JORD2SROAD		
Contract Strategy	Contract design and build to Sheffield City Council.		

4. Baseline Cost Estimates

А	All costs in this section are base costs (pre-out-turned), to 2 decimal places				
В	ase Year	2018/19			

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Base Cost totals (£m)	Plant Status No.	Costs incurred to date (£m)	Design Costs (£m)	Contractor Prelims (£m)	Contractor Constructio n Cost (£m)	Contractor Temporary Works (£m)	Continge ncy (£m)	Total Project Cost (£m)
	2020-260							
Notes:	National Grid do not have the necessary licences to undertake works to highways. Sheffield City Council's Highways department have been engaged however National Grid have not yet received a quotation for these works. The above costs represent National Grid's best estimation of what it would cost the highways agency to construct the design they have provided.							

5. Declarations

Арј	proval	Name	Signature	Date	Declaration
1	Commercial and Portfolio Manager	Sheena Froggatt		17/08/22	The Investment Team Manager has determined that this scheme is in line with overall business goals and objectives.
2.	Asset Management Lead	Damien Culley		22/08/22	The Asset Management Lead has determined that this scheme is in line with overall business goals and objectives.