

YX Overhead Line – Ben Cruachan Hydro to Dalmally Substation: ATV Access Routes and EPZ

Archaeological Mitigation Works

Written Scheme of Investigation

1. Introduction

A section of overhead power line is to be upgraded between Dalmally Substation, near Dalmally, Argyll & Bute, and Ben Cruachan Hydro Power Station, Argyll and Bute.

This Written Scheme of Investigation (WSI) has been prepared by CFA Archaeology Ltd for Balfour Beatty Ltd and is designed to meet the requirements of the West of Scotland Archaeology Service (WoSAS), archaeological advisors to Argyll & Bute Council. It sets out the programme of archaeological works required to mitigate the effects of the construction of EPZ areas and the use of All Terrain Vehicle (ATV) routes to access specific towers.

A desk-based assessment was carried out in March 2014 (Tweedie 2014) and a walkover survey of all of the proposed ATV access routes and EPZ sites was carried out in March 2015. The walkover surveys covered a 50m corridor centred on the EPZ locations and access routes.

The construction works comprise the construction of EPZ platforms at tower YX25, and the use of ATV routes (some using existing tracks) to enable access to towers YX2, YX4-6, YX10-12, YX14-24. At the time of the walkover survey, a number of the EPZs had already been built; in these instances, each edge of the EPZ was surveyed to identify any sites which may have been impacted upon.

During the walkover survey, identified sites (both from the previous DBA and newly identified in the field) were demarcated with canes and bunting.

The sites recorded in the vicinity of the ATV routes and EPZs, found during both the DBA and the walkover survey, are presented on the figure that accompanies this WSI and described in Table 1 below.

Table 1. Tower access locations and EPZ sites

Tower No.	Site No.	Site name / type / description	Recommended mitigation
2	N/A	N/A	None recommended
4	N/A	N/A	None recommended
5	N/A	N/A	None recommended
6	N/A	N/A	None recommended
9	N/A	N/A	None recommended
10	3	Rig and furrow: Area of well-preserved rig and furrow	Demarcated with canes and marker tape.

Tower No.	Site No.	Site name / type / description	Recommended mitigation
		measuring c.22m by 17m.	
11	N/A	N/A	None recommended
12	5	Field system: Site 5a: Linear turf bank running north to south for c.60m. Survives to 1.5m wide and 0.3m high. Site 5b: Rig and furrow bounded by site 5a to the east. Measures c.20m by 15m Site5c: Ruin.	Demarcated with canes and marker tape.
13	N/A	N/A	None recommended
14	N/A	N/A	None recommended
15	N/A	N/A	None recommended
16	N/A	N/A	None recommended
17	N/A	N/A	None recommended
18	16	Field wall and bank Dry-stone wall enclosure surviving to 1.5m high. The enclosure measures c.300m by 200m.	Demarcated with canes and marker tape.
19	15	Rig and Furrow Area of probable broad rig cultivation covering an area c.35m by 30m.	Micro-site ATV route around site 15. Demarcated with canes and marker tape.
20	N/A	N/A	None recommended
21	N/A	N/A	None recommended
22	N/A	N/A	None recommended
23	10	Castles Farmstead	None recommended
24	N/A	N/A	None recommended
25	14	Possible cairn Possible small cairn c.3m in diameter and 0.8m high.	Demarcated with canes and marker tape.

2. Objectives

The objectives are to:

- Ensure the preservation of Sites 3, 5, 13-16 through their demarcation during all works to ATV tracks and EPZ sites;

3. Methods Statement

3.1 General

CFA follows the Chartered Institute for Archaeologists' Code of Conduct, Standards and Guidelines as appropriate. Recording of all elements will be done following established methods.

3.2 Demarcation

Sites to be demarcated are listed in Table 1.

The sites were located by GPS and a photographic record was made of the surviving remains. All photographs contain a metric scale.

Sites were fenced off with a visible barrier. This demarcated area includes a minimum

10m buffer zone around the site.

The details of the locations of the sites to be fenced off will be supplied to the Main Contractor, and their importance explained to all site staff.

No development is intended within demarcated areas but if a site cannot be preserved *in situ* then a programme of mitigation will need to be agreed in advance with WoSAS.

Any fencing will remain in place for the duration of all construction works.

4. Products

The Products will comprise:

- A data structure report.
- A summary report for inclusion in *Discovery and Excavation in Scotland*.
- An OASIS Scotland entry.
- Post-excavation Research Design (PERD) for post-excavation and publication, if appropriate.

A digital copy of the full reports with plans and DES entry will be supplied to WoSAS as a PDF within 4 weeks of the completion of fieldwork. The inclusion of photographs, plans and illustrations will fall within the current guidelines for archival standards set by the Archaeology Data Service and RCAHMS.

A PERD, if required, will be submitted within 3 months of WoSAS agreement to the DSR, and any final publication reporting will be completed within a year of WoSAS agreement to the PERD.

The project archive, comprising all record sheets, plans and reports, will be deposited with the National Monuments Record of Scotland within six months of completion of fieldwork and any relevant post-excavation analyses. Finds will be subject to the Scots law of Treasure Trove and Bona Vacantia, and will be reported to the Crown Agent for disposal. Appropriate conservation of finds will be conducted before disposal.

5. Resources

5.1 Proposed Project Personnel

Melanie Johnson MA PhD FSA Scot MCIfA will manage this project. Dr Johnson graduated from the University of Edinburgh in 1996 with an MA in Archaeology. Since then she has worked as a professional archaeologist in Scotland. She has extensive experience of Scottish archaeology and of managing projects ranging from single plot house developments to pipelines, roads, large-scale housing developments, windfarms and commercial developments in both rural and urban environments. She has managed a number of Historic Scotland projects, including excavations along the A96 Fochabers-Mosstodloch Bypass. In addition to project management she has acted as a consultant for Airtricity, Natural Power, SSE and Scottish Water among others.

Field Director for CFA will be selected from CFA's pool of Project Officers, all of whom have appropriate experience. If appointed, CVs for the appropriate staff can be forwarded prior to the start of the project.

CFA's Graphic's Manager is Leeanne Whitelaw BSc MifA. Ms Whitelaw is responsible for the organisation and management of all GIS, CAD and Illustrative material at CFA. She is an experienced illustrator with specialist knowledge in GIS and standing building survey and has worked on a variety of projects in Scotland and England.

6. Health and Safety

All staff will be inducted into the Archaeological Contractor's Health and Safety Policy. All staff will also adhere to the Principal Contractor's site Safety Rules and procedures. All work for the project will be subject to Risk Assessment procedures, a copy of which will be provided prior to going on site.

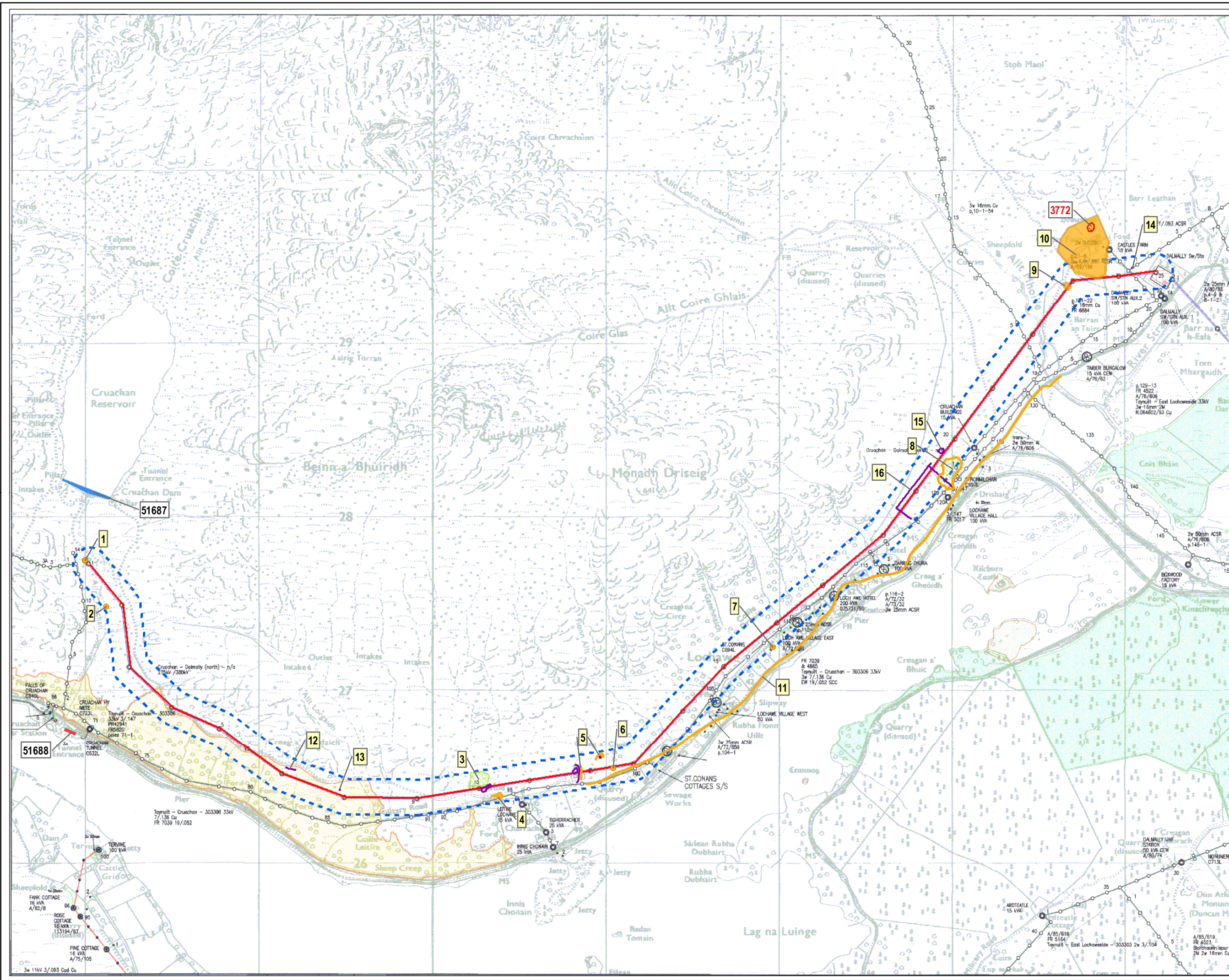
7. Monitoring

Close contact will be maintained between CFA and the client and WoSAS for the purposes of managing the project.

Important or unexpected discoveries will be communicated to the client and WoSAS. Contact numbers for the site will be forwarded in advance of the work starting.

8. Reference

Tweedie, H 2014 *Replacement Overhead Line (YX route) Ben Cruachan Hydro Power Station to Dalmally Substation. Cultural Heritage Assessment*. CFA Report No: 3105.



- Key:**
- OHL
 - 100m Buffer
 - Scheduled Monument
 - Listed Building Category A
 - Listed Building Category B
 - Rig and Furrow Cultivation Remains
 - Cultural Heritage Site (point)
 - Cultural Heritage Site (linear)
 - Cultural Heritage Site (area)
 - Field Survey Results



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Fig. No: **1** Report No: **WSI**

Title:
Cultural Heritage: Constraints

Project:
Ben Cruachan Hydro Power Station to Dalmally Substation

Client:
Iberdrola

Scale at A3:
1:20,000

Drawn by: **SW** Checked: **SM** Date: **14/04/2015**

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