Volume 5: Appendix 3.4 - Outline Construction Environmental Management Plan (CEMP)

CONTENTS

LIST OF ACRONYMS AND ABBREVIATIONS

Acronym / Abbreviation	Definition
BB	Balfour Beatty
CEMP	Construction Environmental Management Plan
EIA	Environmental Impact Assessment
EMPs	Environmental Management Plans
km	kilometre
KPIs	Key Performance Indicators
kV	kilovolts
MG	M Group Energy (formally Morrison Energy Services (MES))
OHL	Overhead Line
Section 37 Consent / planning conditions	Consent under Section 37 of the Electricity Act 1989 and Section 57(2) of the Town and Country Planning (Scotland) Act 1997 (as amended). Given by Scottish Ministers.
SEPA	Scottish Environment Protection Agency
SHE	Safety, Health and Environment
SHEQ	Safety, Health, Environment and Quality
SSEN Transmission	Scottish & Southern Electricity Network Transmission
UGC	Underground cable

1. INTRODUCTION

1.1 Background

1.1.1 This outline Construction Environmental Management Plan (CEMP) is based on the standard Scottish & Southern Electricity Network Transmission (SSEN Transmission) CEMP Template and has been amended to bring together the existing Balfour Beatty (BB) and M Group (MG) outline CEMPs for the Kintore to Tealing 400 kV OHL.

> Red text in this outline CEMP indicated notes and instructions for the Principal Contractors' CEMP authors and indicates information to be added pre-construction.

1.1.2 SSEN Transmission has appointed Balfour Beatty and M Group as the Principal Contractors for the Proposed Development to install approximately 105.2 km of new 400 kilovolts (kV) double circuit Overhead Line (OHL) supported by a series of steel lattice towers between Kintore and Tealing, including relevant substation tie-ins and temporary and permanent access tracks.

1.1.3 Balfour Beatty shall deliver the 72.5 km section of the Proposed Development between Emmock substation and Hurlie substation (Sections A to D).

1.1.4 M Group shall deliver the 32.7 km section of the Proposed Development between Hurlie substation and Kintore substation (Sections E and F).

1.2 Project Overview

1.2.1 An overview of the Proposed Development is outlined in [insert Figure 1] which also shows the proposed new substations at Emmock (near Tealing, Angus) and Hurlie (Fetteresso Forest, Aberdeenshire) which are being delivered as separate projects.

1.2.2 Consent and deemed planning permission is being sought for the Proposed Development under Section 37 of *the Electricity Act 1989* and Section 57(2) of the *Town and Country Planning (Scotland) Act 1997* (as amended).

1.2.3 The Proposed Development spans two Council areas, Angus Council and Aberdeenshire Council.

1.2.4 It is the Principal Contractors' responsibility to deliver the Proposed Development safely, in line with all relevant legislation and with due care of the environment to meet, or exceed, national and industry standards and SSEN Transmission's contractual requirements. Full consideration shall be given to the local communities, landowners, local authorities, regulators and other potentially affected parties (e.g. other utility operators).

[insert Figure 1]

> Background and project overview shall be updated / amended and included in the finalised CEMPs by the Principal Contractors.

2. CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

The purpose, framework, development, implementation, agreement and updates of the CEMPs shall be included in the CEMPs by the Principal Contractors. Details will include the following aspects as a minimum updated as required in agreement with SSEN Transmission.

2.1 Purpose of a CEMP

2.1.1 The purpose of a CEMP is to ensure all environmental commitments are delivered on-site and that the environment is protected. The guidance included in this outline CEMP shall be used to inform the Principal Contractors' CEMPs, which should be updated throughout the construction period as required, and control measures amended or expanded as necessary.

2.1.2 The Scope of Works covered by this outline CEMP will be agreed between the Principal Contractors and SSEN Transmission prior to works commencing and the CEMP will be updated and managed as required by the Principal Contractors.

2.1.3 Environmental protection measures and any necessary hold points identified (for example, requirements for consultation, further protected species surveys or for Technical Specialists to be on site) shall also be integrated into appropriate Method Statements for all key activities, which the Principal Contractors are required to produce.

2.1.4 The Principal Contractors' CEMP shall be submitted to Angus Council and Aberdeenshire Council for approval prior to works commencing on site, in consultation with the Scottish Environment Protection Agency (SEPA), NatureScot and other relevant regulators.

2.1.5 Construction activities for the Proposed Development are anticipated to be carried out between 2026 and 2030 subject to the necessary approvals being granted.

2.1.6 Construction works shall be co-ordinated with any other works on the transmission network to minimise disruption to consumers.

2.2 CEMP Framework

2.2.1 This outline CEMP provides a framework to support compliance with the following requirements in respect of the Proposed Development:

- all applicable Section 37 consent / planning conditions;
- all applicable Environmental Impact Assessment (EIA) mitigation;
- all applicable SSEN Transmission project commitments, improvements and enhancements;
- all applicable SSEN Transmission environmental management strategies and plans, policies and standards;
- all applicable legal requirements, including consents and licences that are required to be secured;
- all applicable local authority and regulator policies and procedures;
- the Principal Contractors' policies and procedures; and
- the Principal Contractors' integrated management system requirements.

2.2.2 The CEMP will also identify how the Principal Contractors will manage environmental improvement opportunities such as to improve efficiency, generate savings in relation to materials used and waste / emissions produced, and enhance existing biodiversity. The Principal Contractors will hold a separate environmental risk and opportunities register which will be a live document.

2.2.3 The CEMP shall provide a documented system detailing the means by which the Principal Contractors shall:

- comply with the requirements listed above;
- identify, avoid, mitigate / eliminate and manage environmental risks;
- embed sustainability and environmental practices into the Proposed Development; and
- record innovation and good practice to ensure continual improvement.

2.2.4 SSEN Transmission shall make available all environmental and site information to the Principal Contractors. The Principal Contractors shall also ensure public environmental records are regularly reviewed (at least every six months) and site surveys undertaken as required to enable the environmental risks to be identified and kept up to date.

2.3 CEMP Development and Implementation

2.3.1 The CEMP shall be continually used by the Principal Contractors' Project Teams responsible for planning, organising and delivering the work. It is the responsibility of the Principal Contractors' Project Managers to ensure that all staff are aware of the CEMP and the details within it, and that control measures are implemented and carried out at an appropriate time, including where that may be in advance of site works commencing. The regional office and temporary offices and depots shall retain a copy of the CEMP in electronic and hard copy. Staff shall be made aware of updates and amendments to the CEMP and hard copies shall be updated.

2.3.2 The Principal Contractors, working with the SSEN Transmission's Environmental Management Team, shall ensure mitigation detailed in the CEMP is transposed into specific localised Environmental Management Plans (EMPs) / Method Statements before construction in each area begins. They shall identify potential environmental risks and mitigation measures for each key site activity.

2.3.3 Environmental impacts shall be considered during the design and planning stage to:

- identify potential sources of environmental risk and opportunities;
- identify pathways of exposure;
- identify receptors at risk from exposure;
- identify the potential impacts on receptors;
- identify any controls currently planned or in place;
- assess the potential risks for the work sites;
- consider implementing further mitigation to further reduce the risks; and
- identify areas of innovation and good practice from previous projects' lessons learned, wider industry and supply chain etc.

2.3.4 Once handed over to the construction teams, each specific impact area shall be further considered to:

- review and update all risks and opportunities identified;
- identify additional potential sources of environmental risks based on further survey and project development;
- implement mitigation and controls that reduce the environmental impact of site activities;
- continually collate and report data as required; and
- implement sustainability improvements, innovations and good practices as appropriate.

2.3.5 In applying mitigation and control measures at all stages, the Principal Contractors shall review:

- environmental cost benefits;
- environmental risk reduction; and
- areas of improvement, innovation and good practices.

2.3.6 In drafting the CEMP, the potential for environmental impacts from unforeseen / unplanned events shall be considered and site-specific emergency protection measures identified. The Principal Contractors shall identify general procedures for such emergencies.

2.4 CEMP Agreement and Updates

2.4.1 The CEMP shall be a live document and implementation and updating shall be a condition of the Principal Contractors' Contract with SSEN Transmission. The Principal Contractors shall be required to implement their CEMP through all sub-contracts.

2.4.2 The CEMP shall be reviewed and amended periodically by the Principal Contractors to reflect all new information that becomes available and changes in the work scope.

2.4.3 Monitoring effective implementation of the CEMP shall be a contractual responsibility of the Principal Contractors. SSEN Transmission shall establish audit and oversight procedures to ensure the proper implementation of the CEMP by the Principal Contractors and the effectiveness of the measures contained within them at mitigating environmental impacts. Where significant amendments are required to a CEMP, the proposed amendments shall be issued to relevant stakeholders for review, prior to adoption.

3. PROPOSED DEVELOPMENT DESCRIPTION

Details of the Scope of Work will be confirmed by SSEN Transmission.

3.1 Scope of Work

3.1.1 The Scope of Work for the Proposed Development consists of the following:

- Pre-construction environmental survey data.
- Pre-construction soil sampling for Potato Cyst Nematode (PCN) and clubroot.
- Pre and post-construction site and road condition surveys with photographic evidence.
- Pre-construction site protection measures.
- Local community liaison activities.
- Micrositing (if required).
- The formation of access tracks (permanent and temporary) and upgrades to existing access tracks.
- Public Road Improvements (PRI) to facilitate construction traffic travelling along existing public roads. These works could include upgrades such as road widening, installation of temporary or permanent passing places, new or upgraded road junctions or bellmouths, and upgrades to or replacement of existing bridges.
- Temporary compounds, working areas and laydown areas around infrastructure to facilitate construction: at the base of each tower to facilitate construction of tower foundations and at locations between towers to facilitate conductor stringing.
- Establishment of temporary measures to protect road, water and gas pipeline crossings (e.g. scaffolding).
- Tree felling and vegetation clearance to facilitate construction and operation of the Proposed Development, to comply with the Electricity Safety, Quality and Continuity Regulations (ESQCR) 2002.
- Permanent realignment of existing transmission OHLs to make space for the project at Wester Durris and Kintore Substation.
- A cable sealing end compound near Kintore substation for the underground cable (UGC) replacing the existing 132 kV OHL (the installation of the UGC would be undertaken under permitted development rights).
- A crossing of the existing 132 kV OHL south of Echt using a 'diamond arrangement'.
- The installation and operation of new double circuit 400 kV OHL supported by a series of steel lattice towers. Install foundations, construct and erect steel lattice towers and wire the associated 400 kV circuits.
- Establish temporary diversions of existing OHLs where necessary to enable undergrounding or realignment. There may also be additional towers to be erected associated with the high voltage diversion works.
- Materials and waste management including dismantling and removal of redundant infrastructure and removal of temporary works and site reinstatement including replanting where required.
- Compensatory planting.
- Environmental mitigation and enhancement measures.
- Site restoration.
- Other associated ancillary works.

3.2 Key Environmental Constraints

Details of environmental constraints shall be included in the CEMP by the Principal Contractors. Details will include the following as a minimum expanded as required.

3.2.1 The key environmental constraints are as follows, which are shown on [Insert **Figures XX – XX**]:

[insert key constraints / receptors]

Landscape and Visual

- Landscape. [insert]
- Visual amenity. [insert]
- Lighting. [insert]

Cultural Heritage

- Scheduled Monuments. [insert]
- Listed Buildings. [insert]

Hydrology, Hydrogeology, Geology and Soils

- Agricultural land. [insert]
- Soil conditions, geology including peat.
- River catchment, and groundwater dependant ecosystems. [insert]
- Watercourses, waterbodies and flood risk. [insert]
- Surface water management and flood risk. [insert]
- Drainage, including agricultural field drains. [insert]
- Private Water Supplies (PWS). [insert]
- Scottish Drinking Water Catchments (DWC). [insert]
- Other utilities such as Scottish Water assets. [insert]

Ecology and Ornithology

- Protected fauna, terrestrial and aquatic. [insert]
- Invasive species. [insert]
- Designated sites. [insert]
- Woodland, forests, including ancient woodland and veteran tress. [insert]
- Habitats and protected flora. [insert]
- Biosecurity. [insert]

Air Quality

- Air quality. [insert]

Noise and Vibration

- Noise and vibration. [insert]

Traffic and Transport

- Roads and tracks including passing places and parking areas. [insert]
- Public and private access points / routes. [insert]
- Traffic and transportation. [insert]
- Recreational routes and areas – terrestrial and aquatic including fishing beats. [insert]

[insert **Figures XX – XX** : site drawing(s) showing key environmental constraints].

Note: Include details of the likely environmental nuisance that may be created by the Proposed Development for each of the activities such as dust, noise, light pollution and details of the measures which shall be undertaken during the project to ensure they are managed appropriately.

3.3 Key Project Activities

Details of key project activities shall be included in the CEMP by the Principal Contractors.

3.3.1 The main activities required to deliver the Scope of Works for the Proposed Development shall be set out as per the example table below, **Table 3.1: Project Activities**. This table shall be completed by the Principal Contractors as part of the CEMP and will be updated as construction activities progress.

Table 3.1: Project Activities

Project Activity	Description
[insert]	[insert]
Work Planning	[insert]
Environmental Surveys	
Pre-commencement Site Surveys and Protected Species	
Site and Access Planning	
Local Authority and Regulator Liaison	
Consents, Permits and Licences	
Community Liaison	
Existing Services	
Pre-construction Condition Surveys	
Site Establishment	
PRI and Access Establishment	
Asset Protection	
Watercourse Crossings	
Environmental Controls	
Site Clearance	
Earthworks	
Civil Works	
Mechanical and Electrical Works	
Restoration	
Planting	

Note: Include what the Proposed Development consists of and proposed method of works, expand table as required.

3.4 Legislative Requirements

3.4.1 SSEN Transmission hold a legal register for all of the major environmental legislation directly applicable to the Proposed Development. In addition, some other pieces of environmental legislation have been included for general awareness and guidance purposes. The register will be available and included as part of the CEMP.

3.4.2 The following legislation is applicable to the Proposed Development:

- The Construction (Design and Management) Regulations 2015.
- The Environmental Protection (Duty of Care) (Scotland) Regulations 2014.
- Waste (Scotland) Regulations 2012.
- Electricity Works (Environmental Impact Assessment) (Scotland) Regulations 2017.
- The Town and Country Planning (Environmental Impact Assessment) (Scotland) Regulations 2017.
- Town and Country Planning (General Permitted Development) (Scotland) Order 1992.

- The Water Environment (Controlled Activities) (Scotland) Regulations 2011 (CAR).
- The Waste Management Licensing (Scotland) Regulations 2011;
- Air Quality Standards (Scotland) Regulations 2010.
- The Environmental Liability (Scotland) Regulations 2009.
- The Conservation (Natural Habitats, &c.) Amendment (Scotland) Regulations 2007.
- Environmental Noise (Scotland) Regulations 2006.
- The Forestry (Exemptions) (Scotland) Regulations 2019.
- Forestry and Land Management (Scotland) Act 2018.
- The Control of Substances Hazardous to Health Regulations 2002.
- Special Waste Regulations 1996.
- The Conservation (Natural Habitats, &c.) Regulations 2017.
- The Conservation (Natural Habitats, &c.) Regulations 1994.
- Control of Pollution (Registers) (Scotland) Regulations 1993.
- Controlled Waste (Registration of Carriers and Seizure of Vehicles) Regulations 1991.
- Landfill Tax (Scotland) Act 2014.
- Wildlife and Natural Environment (Scotland) Act 2011.
- Flood Risk Management (Scotland) Act 2009.
- Planning etc. (Scotland) Act 2006.
- Nature Conservation (Scotland) Act 2004.
- Water Environment and Water Services (Scotland) Act 2003.
- Town and Country Planning (Scotland) Act 1997.
- The Environment Act 1995.
- Protection of Badgers Act 1992.
- Environmental Protection Act 1990.
- Electricity Act 1989.
- Control of Pollution (Amendment) Act 1989.
- Wildlife & Countryside Act 1981.
- Roads (Scotland) Act 1984.
- Transport (Scotland) Act 2019.
- Planning (Scotland) Act 2019.
- [insert]

  Note: Include all legislative requirements that apply to the Scope of Works updated as required / appropriate.

3.5 Consents and Permissions Required

3.5.1 Works may be subject to additional statutory requirements or should comply with regulatory guidance.

3.5.2 The consents and permissions listed in **Table 3.2: Consents Required** are anticipated to be required for the Proposed Development. This table shall be updated accordingly as part of the CEMP by the Principal Contractors. Any conditions attached to any permissions shall be added to SSEN Transmission's Commitments Register.

Table 3.2: Consents Required

Legislation, Regulation	Permit, Licence, Consent	Regulator	Project Stage	Responsibility
Electricity Act 1989[1]	Consent	Energy Consents Unit	[insert]	SSEN Transmission (as the Applicant)
The Environmental Authorisations (Scotland) Regulations 2018[2]	Licence	SEPA	[insert]	Principal Contractors (on behalf of the Applicant)
The Water Environment (Controlled Activities) (Scotland) Regulations 2011[3]	Licence	SEPA	CAR	Principal Contractors (on behalf of the Applicant)
The Wildlife and Countryside Act 1981 (as amended)[4]	[insert]	NatureScot	[insert]	[insert]
The Conservation (Natural Habitats &c.) Regulations 1994 (as amended)[5]	[insert]	[insert]	[insert]	[insert]
The Protection of Badgers Act 1992 (as amended)[6]				
[insert]	[insert]	[insert]	[insert]	[insert]

Note: Include all consents, permits, licences, approvals etc. that apply to the Scope of Works. This table can be expanded.

3.5.3 Consents and permissions are discussed further in **Section 6**.

3.6 Project Commitments Register

3.6.1 SSEN Transmission hold a Commitments Register for the Proposed Development which will be available to view and will be appended to the CEMP. This register will be a live document which shall be kept up to date by SSEN Transmission and may be amended should any further commitments be made during progress of the Proposed Development. Updates shall be formally communicated to the Principal Contractors.

3.6.2 Any conditions attached to any permission obtained by the Principal Contractors shall be added to SSEN Transmission's Commitments Register.

[1] UK Government (1989). Electricity Act 1989 [online]. Available at: https://www.legislation.gov.uk/ssi/2011/209/contents
[2] UK Government (2018). The Environmental Authorisations (Scotland) Regulations) 2018 [online]. Available at: https://www.legislation.gov.uk/ssi/2018/219/contents
[3] UK Government (2011). The Water Environment (Controlled Activities) (Scotland) Regulations 2011 [online]. Available at: https://www.legislation.gov.uk/ssi/2011/209/contents
[4] UK Government (1981). The Wildlife and Countryside Act 1981 (as amended) [online]. Available at: https://www.legislation.gov.uk/ukpga/1981/69/contents
[5] UK Government (1994). The Conservation (Natural Habitats &c.) Regulations 1994 (as amended) [online]. Available at: https://www.legislation.gov.uk/uksi/1994/2716/contents
[6] UK Government (1992). The Protection of Badgers Act 1992 (as amended) [online]. Available at: https://www.legislation.gov.uk/ukpga/1992/51/contents

4. ENVIRONMENTAL MANAGEMENT PERSONNEL

Details of the project environmental management personnel shall be included in the CEMP by the Principal Contractors. The Principal Contractors shall each appoint a minimum of one Environmental Manager and two roles of Advisory Environmental Clerk of Works (ECoW) during construction of the Proposed Development. Details will include the following as a minimum.

4.1 Environmental Personnel

4.1.1 The project personnel for the Principal Contractors and SSEN Transmission teams shall be set out in the CEMP as per the example tables set out below (to be populated prior to construction):

- Table 4.1: Principal Contractors Team Directory.
- Table 4.2: SSEN Transmission Project Team Directory.
- Table 4.3: Third Party Directory.
- Table 4.4: Team Member Deployment through Project Phases in Days per Week.

Table 4.1: Principal Contractors Team Directory

Role	Name	Phone Number	Email
[insert]	[insert]	[insert]	[insert]

Table 4.2: SSEN Transmission Project Team Directory

Role	Name	Phone Number	Email
[insert]	[insert]	[insert]	[insert]

Table 4.3: Third Party Directory

Role	Name	Phone Number	Email
[insert]	[insert]	[insert]	[insert]

Table 4.4: Team Member Deployment Through Project Phases in Days per Week

Team Member and Role	Pre-construction	Advance Works	Civils Works	Mechanical and Electrical	Post Construction
[insert]	[insert]	[insert]	[insert]	[insert]	[insert]

Note: Adjust roles / job titles as required and include the expected duration each role shall be on site for each phase of the project in days per week.

4.2 Roles and Responsibilities

- [insert]
- [insert]

Note: Insert details of all named personnel and details of their role and responsibilities.

4.3 Sub-Contractor Management

4.3.1 Any sub-contractors appointed by the Principal Contractors shall be listed out with details added of roles and responsibilities.

- [insert]
- [insert]

Note: Insert details of all named personnel and details of their role and responsibilities.

4.3.2 Prior to commencement of works on site, sub-contractors shall be informed of the environmental guidance, rules and procedures to be followed during the period of their involvement on site. This will be communicated to them via the site induction, regular environmental toolbox talks and environmental awareness campaigns.

4.3.3 Compliance monitoring and reviews shall be undertaken regularly in order to ensure that environmental performance targets are met.

4.3.4 Sub-contractors shall be managed by the Principal Contractors and shall be required to comply with the CEMP and all other contractual and legislative requirements relevant to the Scope of Works. This applies to any sub-contractors appointed by the sub-contractors etc.

Note: Insert details of any sub-contractors that shall be appointed, their roles and responsibilities and detail of who shall manage them.

5. ENVIRONMENTAL INNOVATION AND SUSTAINABILITY

Details of innovation and opportunities for improvement shall be included in the CEMP by the Principal Contractors.

5.1 Innovation and Opportunities for Improvement

- [insert]
- [insert]

6. CONSENTS AND PERMISSIONS PROGRAMME

Details of the consents and permission programme shall be included in the CEMP by the Principal Contractors. Details will include the following as a minimum.

6.1 Requirements

6.1.1 Prior to site mobilisation, environmental surveys shall be undertaken to ensure the correct data is available to enable the applications for the consents and permissions set out in **Section 3** above to be applied for and secured. Liaison with the respective consenting organisations shall be managed by the Principal Contractors.

6.1.2 The Principal Contractors shall:

- maintain a programme of applying for and obtaining consents and permissions in line with the works programme as required;
- review all applications prior to submission to ensure all proposed controls and mitigations are acceptable and recorded;
- review all issued consents and permissions to ensure that any conditions imposed are acceptable and recorded;
- when instructed by SSEN Transmission, be the holder of any existing consents and permissions for the duration of the contract;
- when instructed by SSEN Transmission and if relevant, transfer consents and permissions to SSEN Transmission (or any persons nominated);
- provide copies of any consents and permissions to SSEN Transmission within seven days of receiving them;
- notify SSEN Transmission of any conditions which will require discharging after the contract has completed;
- maintain a record of environmental consents and permissions held and required;
- brief the details of any conditions, and the responsibility of discharging their requirements to all relevant project personnel during induction, as part of the pre-start briefing(s) and through site specific toolbox talks;
- undertake inspections to ensure that works are being carried out adhering to conditions; and
- ensure that consenting organisations are notified at the end of works in a timely manner.

6.1.3 The person in charge of the day to day operations of the site shall be responsible for ensuring consent requirements are communicated to site staff and ensuring compliance with all conditions i.e. the site manager.

6.1.4 Any conditions associated with consents and permissions shall have named responsible persons.

6.1.5 The project team respects the rights of landowners and shall comply with conditions agreed by SSEN Transmission, local authorities and other interested parties.

6.1.6 The Principal Contractors shall set out the required consents, permits and licences etc. as per the example table below, **Table 6.1: Consents Programme.** The table shall outline the programme for securing such consents and any surveys also required to support them.

Protected Species

- [insert]

Written Scheme of Investigation

- [insert]

Insert as appropriate.

Table 6.1: Consents Programme

Permit, Licence, Consent	2026 Q1	2026 Q2	2026 Q3	2026 Q4	2027 Q1	2027 Q2	2027 Q3	2027 Q4
[insert]	[insert]	[insert]	[insert]	[insert]	[insert]	[insert]	[insert]	[insert]

Note: List the consents to be secured with details of how that shall be achieved with a programme showing the timeframes of the survey windows, application date when consent needs to be secured. The programme is expected to include details of consent/authorisation requirements and the timing of site surveys. This table can be expanded.

7. ENVIRONMENTAL POLICIES AND PROCEDURES

Details of the environmental policies and procedures shall be included in the CEMP by the Principal Contractors. Details will include the following as a minimum.

7.1 General Approach

- [insert]

7.2 Contractor Management Systems

- [insert]

7.3 Contractor Polices

- [insert]

7.4 Contractor Procedures

- [insert]

8. COMMUNICATIONS AND TRAINING PLAN

Details of the communication and training plans shall be included in the CEMP by the Principal Contractors. Details will include the following as a minimum.

8.1 Environmental Reporting

SSEN Transmission Requirement

8.1.1 Principal Contractors must notify the SSEN Transmission Project Manager or SSEN Consents and Environment Manager within 30 minutes of the occurrence, or detection of, an environmental incident.

8.1.2 If contact cannot be established, Principal Contractors must notify SSEN Transmission within 30 minutes by telephone:

- 0800 107 3207 (8:00 – 18:00)
- 0800 096 6210 (18:00 – 8:00)

[insert Contractors reporting plan]

8.2 Key Performance Indicators

8.2.1 The following Key Performance Indicators (KPIs) are examples that shall be monitored by the Project Manager on a monthly basis. KPIs are fed back to the SSEN Transmission's Safety, Health and Environment (SHE) administrative department and will be used to monitor the overall performance of the project over time:

- Site inductions of Principal Contractor site personnel.
- Site inductions of SSEN Transmission personnel on the project or visiting the project.
- Site inductions of sub-contractors.
- Visitor site inductions.
- Internal auditing (MSR's).
- External auditing.
- Environmental incidents, near misses and hazards.
- Appropriate reporting: 'good practice' and 'close calls'.
- Environmental incident training (ie oil spill drills).
- Sustainability deliverables.
- Damaged property.
- Observations of best/good practice.
- Toolbox talks and environmental awareness.
- Hours worked.

8.3 Environmental Communications

8.3.1 [insert]

SSEN Transmission Project Team

8.3.2 Weekly Safety, Health, Environment and Quality (SHEQ) and information packs (eg Best Practice bulletins) shall be issued by SSEN Transmission to all projects for distribution to staff by the Principal Contractors each week. The SHEQ packs are to be distributed to engineers to be briefed out and signed onto by all site operatives. These packs contain health, safety, quality and environmental information. External communications shall also be included within the SHEQ packs.

8.3.3 Where project specific environmental constraints have been identified these will be delivered to the project team. This communication will be in the form of the site induction, setting to work briefs and specific toolbox talks.

8.3.4 [insert]

External Communications – Regulators

8.3.5 Where an incident or near miss (good practice or close call observation) has occurred then the event and findings will be discussed with SSEN Transmission. This will include discussion at weekly site meetings (minuted and transmitted to the project team). In the event of an environmental incident SSEN Transmission shall be informed including the findings of lessons learned or investigation.

8.3.6 The Principal Contractors shall, in the first instance, contact SSEN Transmission and not contact a 3rd Party regulator directly (ie SEPA). The first point of contact will be SSEN Transmission ahead of such external communication – at this point SSEN Transmission may guide the Principal Contractors to contact the regulator and keep them informed of progress.

8.3.7 Similarly, regarding lessons learned, audit/inspection findings, non-conformances, and waste management data such information will be made available to SSEN Transmission. This can be via a site meeting, email or another approved electronic provision of report findings.

8.3.8 [insert]

External Communications – Neighbours and the Community

8.3.9 [insert]

External Communications – Other Stakeholders

8.3.10 [insert]

Internal Communications

8.3.11 [insert]

Stakeholder Engagement and Complaints Log

8.3.12 [insert]

Table 8.1: Stakeholder Engagement and Complaints Log

Works	Stakeholder	Date	Issue	Action	Responsibility	Date Addressed

Environmental Training

8.3.13 [insert]

Record Keeping

8.3.14 [insert]

9. ENVIRONMENTAL AUDITING AND MONITORING PLAN

Details of the environmental auditing and monitoring plans shall be provided in the CEMP by the Principal Contractors including details of who shall manage these. Details will include the following as a minimum.

9.1 Roles and Responsibilities

- [insert]

9.2 Environmental Management System Requirements

- [insert]

9.3 Consents, Permit and Licence and Condition Compliance

- [insert]

9.4 Project Environmental Auditing and Monitoring Requirements

- [insert]

9.5 Audit and Monitoring Reporting Procedure

- [insert]

9.6 Compliance Inspections

- [insert]

9.7 Compliance Reporting

- [insert]

9.8 Non-Compliance Procedure

- [insert]

9.9 Project Lessons Learned Register

- [insert]

10. CONSTRUCTION TRAFFIC MANAGEMENT PLAN

Details of traffic management will be set out in a Construction Traffic Management Plan (CTMP) set out by the Principal Contractors, and will be agreed with the relevant Local Roads Authorities. Details will include the following as a minimum.

10.1 Working Hours

- [insert]

10.2 Detailed Site Design

- [insert]

10.3 Access Routeing

- [insert]

10.4 Signage

- [insert]

10.5 Details of Helicopter Use

- [insert]

10.6 Traffic Management Measures

- [insert]

10.7 Road Cleaning Facilities

- [insert]

10.8 Dust Management

- [insert]

10.9 Site Worker Transport and Travel Arrangement Plan

- [insert]

10.10 Site Worker Training Plan

- [insert]

10.11 Community Liaison

- [insert]

11. WORKING HOURS, SITE DESIGN, AND WORK PLANNING

Details of design and site/work planning measures shall be provided in the CEMP set out by the Principal Contractors, outlining measures that shall be used to reduce environmental impacts through good site planning and design. Details will include the following as a minimum.

11.1 Site Design

- [insert]

11.2 Work Planning

- [insert]

11.3 Local Staff and Supplies

- [insert]

11.4 Staff Travel Plan

- [insert]

12. ENERGY AND CARBON

Details of Energy and Carbon Use, and measures to reduce energy and carbon, shall be set out in a Construction Carbon Management Plan (CCMP) and added to the CEMP by the Principal Contractors which will include the following as a minimum.

12.1 Sources of Energy and Carbon Use

- [insert]

12.2 Energy and Carbon Baseline

- [insert]

12.3 Measures to Reduce Energy and Carbon Use

- [insert]

13. EMERGENCY RESPONSE PLAN

Details of the Emergency Response Plan and who shall manage these shall be added to the CEMP by the Principal Contractors which will include the following as a minimum.

13.1 Roles and Responsibilities

- [insert]

13.2 Types of Hazards

- [insert]

13.3 Control Measures

- [insert]

13.4 Emergency Response Process

- [insert]

13.5 Hazard and Incident Reporting Procedure

- [insert]

14. POLLUTION PREVENTION PLAN

Details of the Pollution Prevention Plan shall be added to the CEMP by the Principal Contractors. The Pollution Prevention Plan shall include the following as a minimum.

- Introduction
- Background
- Purpose of Plan
- Roles and Responsibilities
- Sources of Pollution and Environmental Risk
- Pathways
- Receptors
- Potential Impacts and Risks
- Pollution Prevention and Control Measures

15. MATERIALS AND SITE WASTE MANAGEMENT PLAN

Details of the Materials and Site Waste Management Plan shall be added to the CEMP by the Principal Contractors. The Materials and Site Waste Management Plan shall include the following as a minimum.

- Introduction
- Background
- Purpose of Plan
- Roles and Responsibilities
- Materials Supply and Storage
- Types and Predicted Volume of Resources and Waste
- Material Recovery
- Material Reuse
- Waste Minimisation Measures
- How Waste is Managed
- Waste Storage
- Hazardous Waste
- Waste Exemptions/Licensing
- Waste Contractors
- Waste Disposal Locations
- Measurement of Waste
- Quarterly Resource and Waste Reports
- Consideration of measures set out in the Construction Carbon Management Plan (CCMP)

16. FUEL STORAGE PLAN

Details of the Fuel Storage Plan shall be added to the CEMP by the Principal Contractors. The Fuel Storage Plan shall include the following as a minimum.

- Introduction
- Background
- Purpose of Plan
- Roles and Responsibilities
- Types and Predicted Volume of Fuel
- How Fuel is Managed
- Fuel Storage
- Fuel Storage Exemptions/ Licencing
- Refuelling Procedures
- Fuel Contractors

17. WATER MANAGEMENT PLAN

Details of the Water Management Plan shall be added to the CEMP by the Principal Contractors. The Water Management Plan shall include the following as a minimum.

- Introduction
- Background
- Purpose of Plan
- Water Management Plan Methodology
- Roles and Responsibilities
- Water Environment Baseline Surface Water
- Water Environment Baseline Ground Water
- Private Water Supplies (PWS)
- Drinking Water Protected Areas (DWPA)
- Ground Water Dependant Terrestrial Ecosystems (GWDTE)
- Flood Risk
- Agricultural Field Drains
- Water Crossing Points
- Drainage Design
- Pre-construction Enabling Works Phase
- Sources, Pathways and Receptors and Impacts
- Construction Works Phase
- Sources, Pathways and Receptors and Impacts
- Construction Management and Mitigation Measures
- Controlled Activities Regulation Authorisations

18. SOIL MANAGEMENT PLAN

Details of the Soil Management Plan and Restoration Plan shall be added to the CEMP by the Principal Contractors. The Soil Management Plan and Restoration Plan shall include the following as a minimum. See also Peat Restoration Plan.

- Introduction
- Background
- Purpose of Plan
- Soil Baseline
- Soil Quality
- Contaminated Land
- Historic Contamination
- Contamination located during the works
- Pre-construction Enabling Works Phase
- Sources, Pathways and Receptors and Impacts
- Construction Works Phase
- Sources, Pathways and Receptors and Impacts
- Construction Management and Mitigation Measures
- Soil Storage
- Post-Construction Reinstatement
- Sources, Pathways and Receptors and Impacts
- Post -construction Management and Mitigation Measures

19. PEAT MANAGEMENT PLAN

An outline Peat Management Plan has been submitted in support of the Section 37 application and as part of the EIAR (see **Volume 5, Appendix 13.4: Outline Peat Management Plan** of the EIAR).

Details of the outline of Peat Management Plan shall be added to the CEMP by the Principal Contractors. The Peat Management Plan shall include the details within the Outline Peat Management Plan and the following as a minimum.

- Introduction
- Background
- Purpose of Plan
- Peat Baseline
- Pre-construction Enabling Works Phase
- Peat Excavation and Storage
- Sources, Pathways and Receptors and Impacts
- Construction Works Phase
- Sources, Pathways and Receptors and Impacts
- Potential Impacts on Peat
- Estimated Depth and Volume
- Construction Management and Mitigation Measures
- Peatland Reinstatement and Restoration
- Sources, Pathways and Receptors and Impacts
- Post-construction Management and Mitigation Measures

20. CULTURAL HERITAGE MANAGEMENT PLAN

Details of the Cultural Heritage Management Plan and Written Scheme of Investigation (WSI) shall be added to the CEMP by the Principal Contractors. The Cultural Heritage Management Plan shall include the following as a minimum.

- Introduction
- Background
- Purpose of Plan
- Cultural Heritage Baseline
- Pre-construction Enabling Works Phase
- Sources, Pathways and Receptors and Impacts
- Construction Works Phase
- Sources, Pathways and Receptors and Impacts
- Written Scheme of Investigation
- Construction Management and Mitigation Measures

21. ECOLOGICAL AND ORNITHOLOGICAL MANAGEMENT PLAN

Details of the Ecological and Ornithological Management Plan (EOMP) shall be added to the CEMP by the Principal Contractors. The EOMP shall include the following as a minimum.

- Introduction
- Background
- Purpose of Plan
- Designated Sites
- Habitats Baseline
- Species Baseline
- Biosecurity Species (Potato cyst nematode (PCN) and Club root) and Non-native Species
- Pre-construction Surveys
- Pre-construction Enabling Works Phase
- Sources, Pathways and Receptors and Impacts
- Construction Works Phase
- Sources, Pathways and Receptors and Impacts
- Construction Management and Mitigation Measures
- Species Protection Plans
- Licensing Requirements
- Post-Construction Biodiversity Enhancement
- Sources, Pathways and Receptors and Impacts
- Post - construction Management and Mitigation Measures

22. FORESTRY MANAGEMENT STRATEGIES

A Compensatory Planting Strategy and a Native Broadleafed Woodland Management Strategy have been submitted in support of the Section 37 application and as part of the EIAR (see **Volume 5, Appendices 8.1: Compensatory Management Strategy and 8.3: Native Broadleafed Woodland Management Strategy** of the EIAR).

Details of the Forestry Management Strategies shall be added to the CEMP by the Principal Contractors. The Forestry Management Strategies shall include the details set out within the Compensatory Planting Strategy and Native Broadleafed Woodland Management Strategy and the following as a minimum.

- Introduction
- Background
- Purpose of Plan
- Forestry and Woodland Baseline
- Native Woodland Baseline
- Ancient Woodland Baseline
- Veteran Trees Baseline
- Long Established of Plantation Origin (LEPO) Baseline
- Woodland Planting Management Constraint
- Construction Requirements
- Pre-construction Surveys
- Site Clearance Plan
- Pre-construction Enabling Works Phase
- Sources, Pathways and Receptors and Impacts
- Construction Works Phase
- Sources, Pathways and Receptors and Impacts
- Construction Management and Mitigation Measures
- Compensatory Planting Plan
- Sources, Pathways and Receptors and Impacts
- Post-construction Management and Mitigation Measures
- Reporting

23. CONSTRUCTION NOISE MANAGEMENT PLAN

Details of the Construction Noise Management Plan shall be added to the CEMP by the Principal Contractors. The Construction Noise Management Plan shall include the following as a minimum.

- Introduction
- Background
- Purpose of Plan
- Noise Baseline Location of Receptors
- Pre-construction Surveys
- Pre-construction Enabling Works Phase
- Sources, Pathways and Receptors and Impacts
- Construction Works Phase
- Sources, Pathways and Receptors and Impacts
- Construction Management and Mitigation Measures

24. AIR QUALITY MANAGEMENT PLAN

Details of the Air Quality Management Plan shall be added to the CEMP by the Principal Contractors. The Air Quality Management Plan shall include the following as a minimum.

- Introduction
- Background
- Purpose of Plan
- Air Quality Baseline
- Location of Receptors
- Pre-construction Enabling Works Phase
- Sources, Pathways and Receptors and Impacts
- Construction Works Phase
- Sources, Pathways and Receptors and Impacts
- Construction Management and Mitigation Measures
- Consideration of measures set out in the Construction Carbon Management Plan (CCMP)

25. LANDSCAPE AND VISUAL IMPACT MANAGEMENT PLAN

An outline Landscape Mitigation Design Guide is provided in support of the Section 37 application and EIAR (**see Volume 5, Appendix 9.6: Outline Landscape Mitigation Design Guide** of the EIAR).

Details of the Landscape Mitigation Design Guide shall be added to the CEMP by the Principal Contractors as required. .

- Introduction
- Background
- Purpose of Plan
- Visual Impact Baseline – Daytime and Nighttime
- Pre-construction Enabling Works Phase
- Sources, Pathways and Receptors and Impacts
- Construction Works Phase
- Sources, Pathways and Receptors and Impacts
- Location of Receptors
- Construction Management and Mitigation Measures

26. OUTDOOR ACCESS MANAGEMENT PLAN

An outline Outdoor Access Management Plan is provided in support of the Section 37 application and EIAR (**see Volume 5, Appendix 7.1: Outline Outdoor Access Management Plan** of the EIAR).

Details of the outline Access Management Plan shall be added to the CEMP by the Principal Contractors. The Outdoor Access Management Plan shall include the details set out within the **Outline Outdoor Access Management Plan** and the following as a minimum.

- Introduction
- Background
- Purpose of Plan
- Public Access Baseline and Outdoor Access Schedule
- Potential Impacts on Outdoor Access
- General Access Arrangements
- Construction Management and Mitigation Measures (including the British Horse Society Scotland Guidance)

27. SITE RESTORATION PLAN

An outline Site Restoration Plan has been developed in support of the Section 37 application and EIAR (see **Volume 5, Appendix 3.3: Outline Site Restoration Plan** of the EIAR).

Details of the Site Restoration Plan shall be added to the CEMP by the Principal Contractors. The Site Restoration Plan shall include the details set out within the **Outline Site Restoration Plan** and the following as a minimum.

- Introduction
- Background
- Purpose of Plan
- Planning of Works
- Pre-construction
- Construction
- Construction Management and Mitigation Measures
- Reinstatement and Restoration Plan
- Post-construction Reinstatement and Restoration Management and Mitigation Measures
- Post-reinstatement and Restoration Monitoring

APPENDIX A: COMMITMENTS REGISTER

Details of the Commitments Register shall be added to the CEMP by the Principal Contractors.