

Ground Source Heat Pump Association Webinar Series 2020

# Heat Pump Installers MCS Responsibilities & Self- preservation

20<sup>th</sup> August 2020

# The ultimate renewable energy source



## Applicable MCS Standards

MIS 3005 v5.0 dated 28<sup>th</sup> April 2017

Main heat pump Standard (includes table 3 on ground heat exchanger design)

MCS 001-1 v4.1 dated 22<sup>nd</sup> June 2020

Contractor Standard (parts 1 & 2)

MCS 020 v1.3 dated 1<sup>st</sup> May 2015

Planning Standard for air-source

MCS 031 v2.1 dated 22<sup>nd</sup> May 2018

Performance Estimate Template



## MCS 001-1

### 4.11 SUBCONTRACTING

4.11.1 In installations for domestic customers, any work within the scope of the Scheme not undertaken by employees or contract personnel of the MCS Contractor may be delivered by subcontractors provided that:

- a) There is a formal written subcontract agreement clearly setting out the scope of work to be undertaken by the subcontractor and the standards expected.
- b) The MCS Contractor ensures the subcontractor has the necessary capacity and competency for their scope of work.
- c) The subcontractor possesses the appropriate insurances for their scope of work (e.g. Public Liability Insurance, Professional Indemnity Insurance etc.)

4.11.2 In other limited situations (i.e. new-build projects where the contract is with the builder or developer, and commercial installations), it is permissible for the physical installation, setting to work and commissioning to be undertaken by others not subcontracted to the MCS Contractor provided that a contract between the MCS Contractor and the commercial client details the parties involved and the obligations of each.

# MIS 3005 v5.0

## Design

- Drawings (not necessarily in CAD – MS Paint on JPEGs will suffice)
- Ground Heat Exchanger Design Table
- Evidence of geological or soil thermal conductivity source
- Insurable design for borehole (and other archetype) collector arrays
- Requirement to take responsibility for collector array design (not the driller)
- Requirement to take responsibility for the emitter system specification (not the plumber)
- Performance Estimate Template (MCS 031)

## MIS 3005 v5.0

### Handover

- Drawings again (not necessarily in CAD – MS Paint on JPEGs will suffice)
- Handover pack
- Notification to Building Control
- Planning consent (where applicable, MCS 020 for air-source)
- DNO consent (if not listed under ENA database for “connect & notify”)
- Maintenance guidance (Domestic RHI requirement)

## MIS 3005 v5.0

### MCS Audit Report

- Ground-source sample size – 13 projects
- Air-source sample size – 89 projects
- Average non-conformances per installation (as percentage of number of questions)
  - Ground-source 19.6%
  - Air-source 34%
  - Solar PV 42%
  - Solar Thermal 32%
  - Biomass 35%

## MIS 3005 v5.0

### MCS Audit Report

- All ground-source projects audited produced at least one non-compliance (air-source too, incidentally)
- Performance Estimate Template 30%
- Power calculation 15%
- Compliance certificate 15%
- Building Regulations where required 15%
- Ground heat exchanger table 3 62%
- Notification 38%
- Consents & permissions 31%



## General topics of interest

Green Homes Grant

Training

NDRHI Extension

£1Bn decarbonisation of Public Buildings

Electrification of Heat Task Group

Professional Indemnity Insurance

# Questions.....

and thank you  
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