

APPENDIX F – MAINTENANCE SCHEDULE

	Customer	MCS Contractor	
		Intermediate	Full
Visual check of modules from ground level (check for slipped modules, damage, soiling etc)	✓	✓	✓
Visual check of inverter where safe access (check for indication of fault or damage)	✓	✓	✓
Recorded generation is increasing	✓	✓	✓
Visual check for signs of structural distress (Particularly after heavy winter snow)	✓	✓	✓
Reduce shading from vegetation growth where possible	✓	✓	✓
AC & DC isolators (Functional check, damage and ingress)		✓	✓
DC junction boxes where present (Damage and ingress)		✓	✓
Integrity of fuses and surge protectors where present		✓	✓
Generation in line with prediction		✓	✓
Inverter(s) mounted securely		✓	✓
Inverter(s) ventilated (Unobstructed airflow, fans operating etc)		✓	✓
Externally mounted inverters free of signs of water ingress		✓	✓
Inverter fault log(s)		✓	✓
AC voltage at inverter(s) and assess risk of overvoltage		✓	✓
DC connectors (Secure, free of damage, supported away from pooling water)		✓	✓
Clean modules (Particularly where shallow pitch and dusty environment)		✓	✓
Test DC circuits (Vsc, Isc, Earth leakage)		✓	✓
Cables adequately supported and free of damage		✓	✓
All labelling & signage present and correct (Including system schematic)		✓	✓
Emergency shutdown procedure visible		✓	✓
Module clamps secure (Check torque of random sample)			✓
Mounting rails secure and free of distortion (Including fixing brackets)			✓
String series resistance test			✓
String insulation resistance test (Riso)			✓
Potential Induced Degredation test			✓
Thermographic survey for faulty components and module cells			✓

Frequency:	1yr	10yr	15yr
Domestic Privately Owned	1yr	10yr	15yr
Domestic Rented (Private or Social landlord)	-	5yr	10yr
Public Building (e.g. school, hospital)	6-monthly	1yr	5yr
Commercial and Industrial	monthly	1yr	2yr

Note: the checks above, the categorisation of buildings and systems along with the frequency are advisory only. System size is also a factor such that larger systems may justify an increased frequency and smaller systems a reduced frequency.