



Sustainable Bright – Risk Assessment

| | |
|----------------------|---|
| Reference | RA01-SB-PV Park (Punch List)– V1 |
| Site /Work Location: | PV Park Farm, Nottinghamshire NG17 |
| Assessment For: | SB Operators addressing Punch List on Operational Site |
| Who is at Risk: | Sustainable Bright Employees |

EXAMPLE

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| Hazard | Risk | Assessment | | | Control Measures | Residual Risk Rating | | |
|--|---|------------|---|------------|--|----------------------|---|-----------|
| | | L | S | (RR) Score | | L | S | RR |
| Interaction of BGE Site Operators/ Sustainable Bright Operators on operational Site | Pedestrians falling into excavations Slips Trips and Falls Poor Hygiene/disease/illness Illegal access to site (<i>trespassers</i>) Untrained operators Poor communication | 3 | 4 | (M) 12 | <ul style="list-style-type: none"> • Full mandatory PPE worn at all times in accordance with PV Park Solar Park/O&M site rules • Full site induction of all operators and visitors and site rules will be undertaken by O&M Provider • Adequate Welfare facilities in place vs the numbers of Sustainable Operator • All hand tools and construction plant is maintained within site registers, in accordance with PUWER, CE Markings and Statutory Requirements • All chemicals and substances used on site are identified, recorded and assessed in line with COSHH requirements • Safety signage showing pedestrian routes and safe/hazardous areas will be adhered to whilst on site • Physical barriers to be placed where any minor excavations are left open on both sides of the excavation (to prevent accidental falls from operators, trespassers and vehicles) • Roads and tracks cleared of mud and debris on daily basis • Security monitoring is maintained on site 24/7 | 2 | 4 | (L) 8 |
| Manual Handling Materials | WRULD injuries Injury via Manual Handling Injury via sharp edges Slip, Trip and Fall on uneven ground Hidden voids in grass | 3 | 4 | (M) 12 | <ul style="list-style-type: none"> • Full mandatory PPE worn at all times in accordance with PV Park Solar Park/O&M site rules, including stout gloves (protecting against sharp edges) • Workers utilise Kinetic Lifting technics at all times • Where unavoidable, no-one is to carry anything more than they are comfortable with and never more than 20kg. Loads lifted by 2 persons or via mechanical means. • Care taken by workers traversing across the ground, avoiding uneven ground | 2 | 4 | (L) 8 |
| Lone Working | Injury or illness without support | 3 | 4 | (M) 12 | <ul style="list-style-type: none"> • All Employees/Contractors briefed on Lone working procedures, including: <ul style="list-style-type: none"> ◦ No high risk working when working alone ◦ Constant communication with Security/SB Project Team • HSE Guidance INDG 73(v3) http://www.hse.gov.uk/pubns/indg73.pdf • No Sustainable Bright Operators plan work on site alone | 1 | 4 | (VL) 4 |
| Noise and Vibration | Operators exposed to excessive noise from impact tools and metal to metal contact Operators exposed to excessive vibration from impact tools | 3 | 4 | (M) 12 | <ul style="list-style-type: none"> • Operators involved in noisy operations issued with correct PPE (EN352) • Ear plugs (EN352-2) supplied to peripheral workers who may be affected by the noisy operations • Where required all impact hand tools will be checked to ensure the ELV is 2.5 m/s-2 or more for an 8 hour day • Operators affected by noise and vibration are subject to Sustainable Bright Occupational Health Monitoring | 1 | 4 | (VL) 4 |



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| Working in hours of darkness | Injury due to tripping, hidden voids, misjudgement etc. non-summertime hours | 3 | 4 | (M) 12 | <ul style="list-style-type: none"> • Programed hazardous work to take place during daylight hours • Access and task lighting provided by Sustainable Bright, task lighting provided by Sustainable Bright. • Site housekeeping maintained at high level at all times | 1 | 4 | (VL) 4 |
| Contact with chemicals and substances | Respiratory problems Skin problems Damage to eyes Sickness/ illness | 3 | 4 | (M) 12 | <ul style="list-style-type: none"> • Full mandatory PPE worn at all times in accordance with PV Park PCI/CPP and the chemical/substance MSDS/COSHH Risk Assessment • All chemicals and substances used are identified, recorded and assessed in line with the chemical MSDS/COSHH Risk Assessment • (Where required) adequate Welfare facilities in place vs the numbers of operators/visitors on site, with supporting maintenance and cleaning | 1 | 4 | (VL) 4 |
| Use of Hand tools | Cuts, grazes and bruising to hands Failure of damaged tools Use of incorrect tools | 2 | 3 | (L) 6 | <ul style="list-style-type: none"> • Tool registers must be maintained up to date by Sustainable Bright Site Foreman • Contractors must inspect tools prior to use discard or dispose of damaged or broken tools • Correct tools for the correct job every time | 1 | 3 | (VL) 3 |
| Use of Ladders/Step ladders | To gain access/egress into minor excavations Gain access to high parts of mounting structure/buildings | 3 | 3 | (L) 9 | <ul style="list-style-type: none"> • Ladders must be EN131 classification (Old Class II) or Class I classification • All ladders must be on the site ladder register • Three point contact with step ladders adopted, including knee and body – <ul style="list-style-type: none"> ◦ http://www.hse.gov.uk/pubns/indg455.pdf ◦ http://www.hse.gov.uk/work-at-height/myths.htm | 1 | 3 | (VL) 3 |
| Working on Sloping or uneven ground | Operators Tripping/Falling | 3 | 4 | (M) 12 | <ul style="list-style-type: none"> • Ladders to be positioned stable ground, Stability of ladders will be checked prior to each use • Where ground is on excessive camber | 1 | 4 | (VL) 4 |
| Open minor excavations | Contractors/trespassers falling into minor excavations | 3 | 3 | (L) 9 | <ul style="list-style-type: none"> • Physical barriers to be placed where excavations are left open on both sides of the excavation (to prevent accidental falls from Sustainable Bright Operators) • Site Foreman to agree period of inspections (if required) to be undertaken by whom and when based on stability? | 1 | 3 | (VL) 3 |
| Hidden UXO/UXB discovered during surveying | Explosion Damage to Site Plant Major Injury/Death | 3 | 3 | (L) 9 | <ul style="list-style-type: none"> • Desk top UXO ordinance Survey carried out by Fellowes (<i>No known hazards identified, however contingency plans are in place should a discovery of an unknown object be apparent</i>) • No planned excavations outside the footprint of the site | 1 | 3 | (VL) 3 |
| Interaction with insects, reptiles and wild animals | Bites & Stings Leptospirosis Bleeding and cuts Infection and Reaction | 2 | 4 | (L) 6 | <ul style="list-style-type: none"> • Employees and Contractors made aware of the possible insects, reptiles and wild animals within UK that could be found on site • Employees and Contractors have previously been briefed to be aware of the risks of Leptospirosis (<i>Wields Disease</i>) and the symptoms • Full mandatory PPE worn at all times (<i>Minimum Hard Hat, Hi Vis waistcoat and Safety Boots</i>) • First Aid Provisions available in Sustainable Bright vehicles | 1 | 3 | (VL) 3 |



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|--|---|---|---|----------|---|---|---|-----------|
| Hypothermia or Hyperthermia | Contractors suffering for effects of coldness Contractors and sub-contractors suffering for effects of heat exposure | 3 | 3 | (L) 9 | <ul style="list-style-type: none"> Contractors briefed as to the requirements of correct clothing as weather moves from summer to winter First Aid arrangements available, Operators have spare change of clothing available if required Contractors briefed as to the requirements of correct clothing as weather moves from Winter to Spring Potable water provided & First Aid arrangements available within Sustainable Bright Vehicles | 1 | 3 | (VL) 3 |
| Dog and cat faeces <i>(Toxocara canis)</i> <i>(Toxocara cati)</i> | Toxocariasis Loss of sight, ill health | 3 | 3 | (L) 9 | <ul style="list-style-type: none"> Full mandatory PPE worn at all times in accordance with PV Park Solar Park/O&M site rules Full site induction Toxocariasis risks are communicated <ul style="list-style-type: none"> Be aware strict PPE protocols must be adhered to. Wash hands thoroughly before eating, smoking etc Sustainable Bright Operators reporting of any ill health to First Aid and Sustainable Bright Foreman | 1 | 3 | (VL) 3 |
| Stress | Contractors under tight deadlines to complete the works Poor or incorrect communication and instruction Wrong tools for the job | 3 | 3 | (L) 9 | <ul style="list-style-type: none"> Deadlines are clear, Sustainable Bright Operators allowed adequate time to prepare in line with program Sustainable Bright Foreman ensure the correct work equipment/information is available to undertake the task Work supervised effectively in a professional manner Adequate breaks are provided Sustainable Bright Operators briefed correctly on all tasks | 1 | 3 | (VL) 3 |

| | | |
|---|---|------------|
| OVERALL Risk Involved with NO Control Measures in Place | | RR |
| Likelihood (L) | Severity (S) | (M) |
| 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> | 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> | 12 |

| | | |
|---|---|------------|
| OVERALL Risk Involved with FULL Control Measures in Place | | RR |
| | | (L) |
| 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> | 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> | 8 |

| PPE Category | | | | | | | | | | Other PPE Requirements |
|---------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--|
| | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | PPE available at all times by Sustainable Bright Foreman |
| Specific Type | EN 397 | EN 166F | EN352/352-2 | EN ISO 20345 | EN 420/388 | | | | | |



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DETAILS OF FURTHER CONTROL MEASURES

| | | | |
|---|---|---|---|
| Planning, Procedures & Documents etc. | PV Park O&M Site Operating Rules ♦ Control of Vibration exposure to operators INDG175 (Utilise Vibration Calculator), Control of Noise exposure to operators, Provision and Use of Work Equipment Regulations (PUWER), INDG402 Safe Use of ladders and step ladders, INDG229(rev1) HSE Using Work Equipment Safely, HSG 47 (HSE); Avoiding Danger from underground services INDG398 HSE – Are you making the best use of lifting and handling aids, HSG168 (HSE) – Fire Safety on Construction Sites, INDG401(rev1) (HSE) - The Work at Height Regulations 2005 (as amended), INDG405 (HSE) – Top tips for ladder and stepladder safety, INDG401 (HSE) - Safe Use of Ladders and Step Ladders INDG403 (HSE) – Toolbox talk on leaning ladder & step ladder safety, IET Code of Practice for Grid Connected Solar PV Systems | | |
| Supervision | Sustainable Bright Foreman to confirm method statement Sustainable Bright Foreman will manager or delegate supervision: Sustainable Bright Operators will sign in and sign out when entering/leaving site | | |
| COSHH Reference | Ready Mix (Bagged) Cement - SB-HSE-Form-19 - COSHH Assessment v1.0 Quelfire (QF1) – SB-HSE-Form-19-COSHH Assessment v1.0 Zinc Paint – SB-HSE-Form-19-COSHH Assessment v1.0 | | |
| Review Trigger | Performing the task with heavy rain Where power sources cannot be isolated Where high risk operations may affect integrity of this risk assessment | | |
| First Aid Box | | First Aid Box located within Sustainable Bright vehicle. All accidents and injuries are recorded in the site Log Book. Accidents must also be recorded on the Sustainable Bright Accident Form (SB-HSE-Form-13-Accident Report Form) Kings Mill Hospital A&E – Sutton-on-Ashfield NG17 4JL Tel: 01623 622515 | Name of First Aider Sustainable Bright Foreman |
| Emergency Procedures – Emergency Telephone 999 | | | |
| On Hearing the Alarm | Evacuate Immediately - (Continuous sound horn or verbal instruction) | | |
| On Discovering a Fire | Raise the Alarm - Evacuate the Site, Only if it is safe to do so – attempt to extinguish the fire, Alert the Fire Service giving Details of Location Fire has been discovered PV Park Farm, Nottinghamshire NG17 – ensure they repeat the message before hanging up' | | |
| Sustainable Bright Review | | | Yes |
| Does this Risk Assessment adequately cover all the risks present for the work to be undertaken at PV Park Solar Park? | | | No |
| Does this Risk Assessment adequately cover all the risks present for the work to be undertaken at PV Park Solar Park? | | | Unsure |
| If no or unsure contact Sustainable Bright Project Manager (Roxana Oprisoreanu Mobile UK: +44785 241 97 24 Mobile RO: +40757 614 013) to request an immediate detailed review | | | |
| Print Name | | Signature | Date |



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| Risk Rating | | | | |
|---|------|---------|---------|-----------|
| Very Low | Low | Medium | High | Very High |
| 1 - 4 | 5 -9 | 10 - 15 | 16 - 20 | 20 - 25 |
| Risk Rating = Severity (S) x Likelihood (L) | | | | |

The risk assessment matrix below (TABLE 1) should be used to calculate the risk level (Likelihood x Severity). Consideration may also be given to property damage or business risk; this can be added to the severity section as appropriate. Once the risk has been calculated the priority for action can be set from TABLE 2.

| TABLE 1: | | Likelihood = L | | | | |
|--------------|--|----------------|-----------------|------------|----------------|--------------|
| | | Certain (5) | Very Likely (4) | Likely (3) | May happen (2) | Unlikely (1) |
| Severity = S | Death (5) | 25 | 20 | 15 | 10 | 5 |
| | Major Injury; severe property damage (4) | 20 | 16 | 12 | 8 | 4 |
| | Up to 3 day injury (3) | 15 | 12 | 9 | 6 | 3 |
| | Minor Injury (treatment off site); minor property damage (2) | 10 | 8 | 6 | 4 | 2 |
| | Minor Injury (First Aid treatment on site) (1) | 5 | 4 | 3 | 2 | 1 |

| TABLE 2: | | |
|----------|-------------|--|
| Score | Risk Rating | Action |
| 1-4 | VL | No Action is required as the risk is as low as reasonably practicable or any further change would/could have negligible affect on the risk |
| 5-9 | L | Action is required to reduce the risk, although low priority. Time/effort/cost should be proportional to risk. |
| 10-15 | M | Action required soon to control the risks. Interim measures may be necessary in the short term. |
| 15-20 | H | Stop Work - Action required urgently to control the risks. Further resources may be needed. |
| 20-25 | VH | Immediate Action |



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2. SUSTAINABLE BRIGHT ACKNOWLEDGEMENT

All Sustainable Bright Operator that will undertake work related to this Risk Assessment at 'PV Park' Solar Park and must sign to acknowledge that they have read the contents and will agree to work in accordance with all the detailed control measures here within.

| Sustainable Bright Employee/Contractor Name | Sustainable Bright Employee/Contractor Signature | Date of Signature |
|---|--|-------------------|
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