

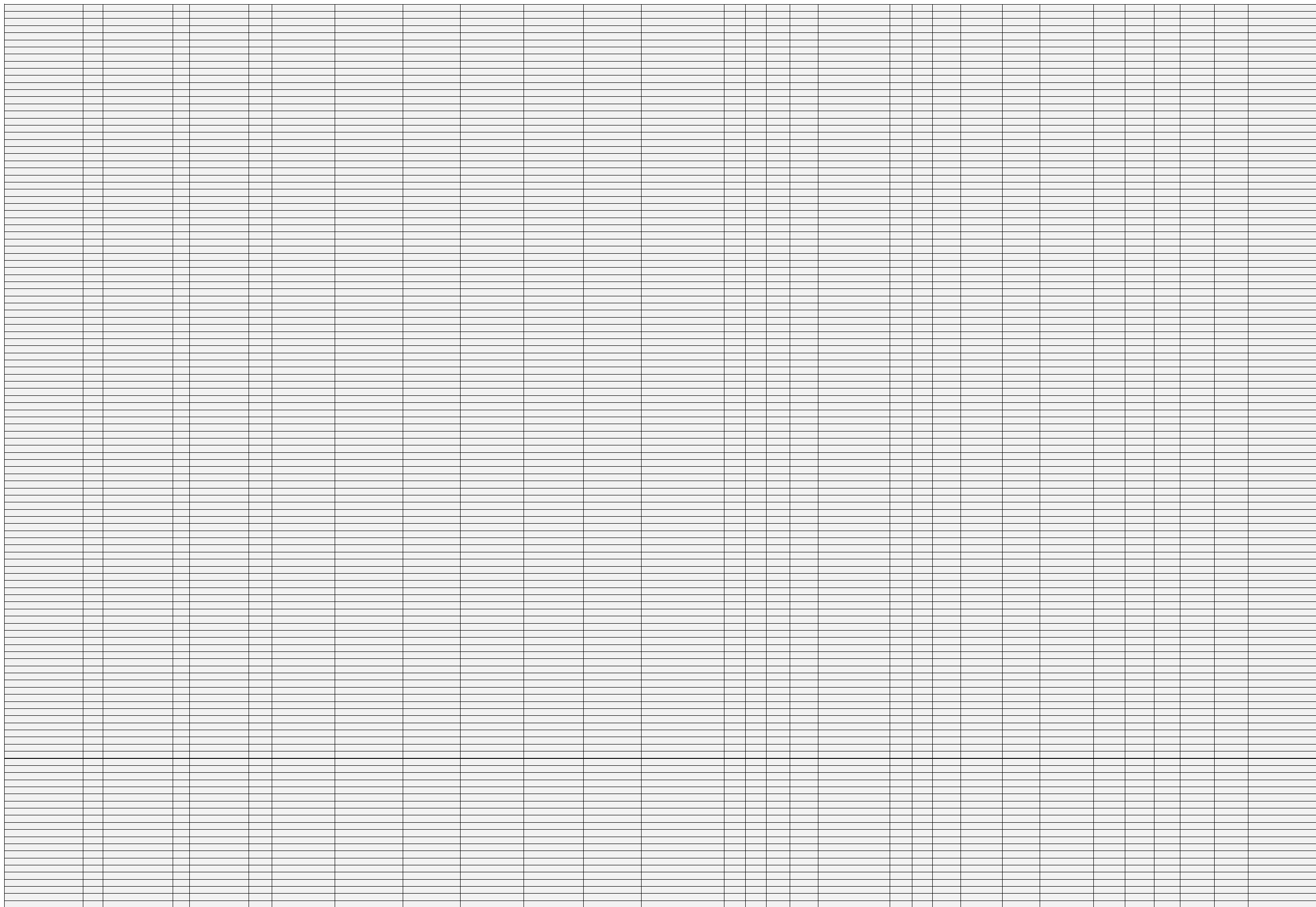


| Occupational Health and Safety Baseline risk assessment template | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|---|---------|--|------------------|--|---|--|---|---|---|---|--|-------------------|----------------------|-------------------------------|--|-----------------------|---------------|------------------------------|--|---|--|---|---------------------|-------------|--|--|
| Project/Dept: | | Asset Management Project Execution: Beta SS | | | | | | | Scope of Risk Assessment | | Supply and delivery of plastic bird perch diverters and stainless steel straps | | | Next Review Date: | | | | Unique identifier | | 240-70044602 | | | | | | | | |
| 15-Feb-21 | | | | | | | | | Prepared By: Peter Tomlinson Signed:  Date: 15-02-2021 | | Authorised By: Tshololelo Seekamo Signed:  Date: | | | | | Revision: 0 Revision date: | | | | | | | | | | | | |
| Refer to Occupational Health and Safety Risk assessment procedure 32-520 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1: List activity | | 2: Hazard identification | | 3: Risk identification | | | | | | | 4: Assess & Analyse Risks | | | | | 4: Evaluate Risk | | | | | 5: Reduce & Eliminate Risk | | | | | | | |
| List activity (When applicable) | Hazard nr | Hazard Identification | Risk Nr | Associated risk (Risk identification) | Risk type | Exposed group/employees | Exposure patterns | Cause(s) of the risk | Risk Owner | Conditions/Routine/Non-routine | What are the Consequences? | Existing Controls | First determine Consequence and then the Likelihood of that Consequence. | | Risk Priority Rating | 4: Evaluate Risk | | Monitoring Mechanisms | Control Owner | Legal and Other Requirements | Initial Target Date | Revised Target Date | Current Status | Independent Verification (i.e. Confirmation that the objectives have been met) | | Comments | | |
| | | | | | | | | | | | | | RCE Risk Control Effectiveness | Likelihood | | Consequence | Likelihood | | | | | | | Date Done: | By whom: | | | |
| List specific activities to be performed taking into consideration the equipment to be used, the personnel involved in the task. | | A hazard is anything that is likely to lead to an event that will have an adverse impact on achieving an objective. A hazard can pose more than one risk. | | A physical event occurs or could occur in relation to the hazard | Safety or health | Who is exposed to the hazard i.e. Employees, visitors, members of the public, etc. | The frequency and duration the person/group is exposed to the hazard e.g. Daily for 3 hrs. | What causes the risk to come into effect? | Who is accountable for making sure the controls and monitors are in place, implemented, regularly reviewed for effectiveness. | Indicate Yes or No if routine and No if non-routine. These might changes to conditions that could not be reasonably anticipated e.g. Emergencies | What is the expected adverse impact on the objective? | Include: - <u>Preventative Controls</u> (controls implemented to eliminate hazards or reduce the likelihood of the risk occurring); and - <u>Residual Controls</u> (controls implemented to reduce the immediate impact of the risk occurring) | Consequence | Likelihood | | | | | | | | | | | | | | |
| Driving on Public Roads | 1 | Driving | 1 | Vehicle Collision, Hijacking, | Safety | Employees, Members of the Public | During Project Travelling | Not paying attention, risk assessment not done, not familiar with the road,making use of cellphone, distractions, exposed to unsafe behaviours, congested roads, Pedestrians and live stock, Taxi and Truck on the road, Civil unrest,Fatigue of drivers | Principal Contractor Employer | No | Injuries, Fatalities, Property damage | Staff driving vehicles to have national driver's license and Defensive driving techniques, vehicles in roadworthy condition, only transport authorised staff in vehicle, pre-trip checks, and obeying of all traffic laws, Adherence to life saving rules and drive Cam. | 3 | 3 | II | P | To adhere to the existing company controls, Driving safety, Drivers Assessed, Valid traffic driver licence, PDP permit | 3 | 2 | III | Incident records | Contractor Employer, Construction Manager Appointed | National Road Safety Act, ESKOM Procedure 32-93 (Vehicle and driver safety management) , ESKOM Procedure 36-588 (Vehicle safety and transportation management) , Life saving rules | Date on awarding of contract | During Project | Progress | | Once Contract is awarded, Safety Evaluation Done, Base Line to be revised |
| Long distance driving | 2 | Driving | 2 | Vehicle Collision, Hijacking, Heavy transportation of equipment | Safety | Employees, Members of the Public | During Project Travelling | Not paying attention, risk assessment not done, not familiar with the road,making use of cellphone, distractions, exposed to unsafe behaviours, Less rest periods, Taxi and Truck, Pedestrians and live stock | Principal Contractor Employer | No | Injuries, Fatalities, Equipment damage | Staff driving vehicles to have national driver's license and Defensive driving techniques, vehicles in roadworthy condition, only transport authorised staff in vehicle, pre-trip checks, and obeying of all traffic laws, adherence to Eskom life saving rules. Secure all tools and equipment on trucks, employees seating properly and secured with seat belts. | 3 | 3 | II | P | To adhere to the existing company controls | 3 | 2 | III | Incident records | Contractor Employer, Construction Manager Appointed | National Road Safety Act, ESKOM Procedure 32-93 (Vehicle and driver safety management) , ESKOM Procedure 36-588 (Vehicle safety and transportation management) , Life saving rules | Date on awarding of contract | Duration of Project | In Progress | | Once Contract is awarded, Safety Evaluation Done, Base Line to be revised |
| Supply and delivery of plastic bird perch diverters and stainless steel straps | 3 | Equipment and material handling, physical work execution | 3 | Electrical contact, falling into excavations, trips falls on site, snakes, insects in trenches,cable damage | Safety | Contractor Employees, Visitors and Eskom Employees | Duration of project | Not focussed, Not wearing appropriate PPE for task at hand, Holding loose equipment, Not following safety/quality method statements, Risk Assessments, Daily Risk Assessments on tasks | Principal Contractor Employer, Construction Manager appointed for contractor, Eskom Project Manager | Yes | First aid injuries, Fatalities or possible fractures | Safety method statements for task to be adhered to, Training of competency for all employees, Safety file approved with compliant contents to work, Regular safety assessments on project, task observations by Contractor Manager | 2 | 2 | IV | P | Adhere to the existing controls | 1 | 2 | IV | Incident records | Construction Manager Appointed | OHS ACT Act 83 of 1993, Construction Regulations as amended | Date before construction work commence | Duration of Project | In Progress | | Safety file to be assessed and safety plan to be approved for construction work prior work commencement. |
| Walking on substation grounds (uneven surfaces) | 4 | Not paying attention, Use of cellphones while walking, inappropriate footwear, Not holding to handrails, Distractions,Slip Trips | 4 | Falls, trips | Safety | Contractor Employees | Duration of project | Not paying attention to activity at hand, Use of cellphones while walking, Inappropriate footwear,Not closing trenches or barricading off, Distractions,Slip Trips | Principal Contractor Employer, Construction Manager appointed for contractor, Eskom Project Manager | No | First aid injuries or possible fractures | OPERATIONAL CONTROL: All staff to obey barricading and sign posting, use of walk ways, take note of possible tripping, slipping and falling hazards, PROGRAMME: wear correct footwear, SHE talks, and apply situational awareness. | 2 | 2 | IV | P | To adhere to the existing controls | 1 | 2 | IV | Incident records | Construction Manager Appointed | OHS ACT Act 83 of 1993, Construction Regulations as amended | Date contract commencement | Duration of Project | In Progress | | Progress safety audits to be done for assurance |
| Walking in and between substation buildings or facilities | 5 | Walking uneven surface, Slippery surfaces, Not paying attention, Use of cellphone while walking, Use of inappropriate foot wear, not holding onto hand rails, Distractions, | 5 | Falls, trips | Safety | Contractor Employees | Duration of project | Not paying attention to activity at hand, Use of cellphones while walking, Inappropriate footwear, Distractions,Slip Trips, wet areas | Principal Contractor Employer, Construction Manager appointed for contractor, Eskom Project Manager | No | First aid injuries or possible fractures | OPERATIONAL CONTROL: All staff to obey barricading and sign posting, use of handrails when ascending and descending stairs, take note of possible tripping, slipping and falling hazards, PROGRAMME: wear correct footwear, SHE talks, and apply situational awareness. | 4 | 2 | II | P | To adhere to the existing controls | 1 | 2 | IV | Incident records | | Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) section 8 (1): Employer shall provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the health of his employees. | Commencement of construction work | Duration of Project | In Progress | | |
| Daily site activities and ergonomics at worksites | 6 | Poor ergonomics at workstations | 6 | Incorrect method of working | Health | Contractor Employees | Duration of project | Not taking regular breaks, not sitting properly,repative work movement with tools equipment. | Principal Contractor Employer, Construction Manager appointed for contractor, Eskom Project Manager | Yes | Injuries and back problems | Correct work site layout, ergonomically designed tools for tasks, avoid long working sessions (allowing muscles to relax). | 2 | 2 | IV | P | To adhere to the existing controls | 1 | 1 | IV | Reports and supervision | | Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 8 of the Facilities Regulation (Seats). | Project Commencement | Duration of Project | In Progress | | |
| Mobile plant, equipment and tools | 7 | Incorrect usage of Mobile Plant, equipment, tools on site | 7 | Faulty tools causing injuries, incorrect operating of plant | Safety | Contractor Employees | Daily - Construction site - hrs, | Incorrect usage of equipment, not follow procedures, method statements, untrained employees | Principal Contractor Employer, Construction Manager appointed for contractor, Eskom Project Manager | No | Injuries, Fatalities,Damage to equipment and environment | Ensure employees, operators are fully trained in operating plant and equipment and maintained under all operating circumstances | 2 | 2 | IV | P | To adhere to the existing controls | 1 | 1 | IV | Reports, Inspection and Supervision | | Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 3 of the Environmental Regulations for Workplaces (Lighting). | Project Commencement | Duration of Project | In Progress | | |
| Working within the substation environment - work will be taking place in-between the security fence live chamber | 8 | Electrocution | 8 | Incorrect work methods, not following safety method statements, Risk Assessments not done for tasks, Daily Risk Assessments on tasks not done, unauthorised ORHVS workers, No supervision on employees | Safety | Contractor Employees, Visitors, Eskom Employees | During working daily in the HV environment | Incorrect work methods, not following safety method statements, Risk Assessments not done for tasks, Daily Risk Assessments on tasks not done, unauthorised ORHVS workers, No supervision on employees | Construction Manager Appointed | No | Injury, illness, fatality and property damage,Electrical Burns | OPERATIONAL CONTROL: ORHVS Authorization Contractor Site Supervisor (Responsible Person), EP and evacuation shared with all on work site. - MONITORING AND MEASUREMENT: Regular safety assessments on risks and methods of works, inspections of electrical equipment (PPE checks), SHE rep inspections. PROGRAMME: SHE induction, fire extinguisher training, observations by project supervisor appointed, situational awareness. | 4 | 2 | II | P | To adhere to the existing controls | 2 | 1 | IV | Inspections | Construction Manager Appointed | Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 3 of the Environmental Regulations for Workplaces (Lighting). | Project Commencement | Project Duration | In Progress | | |
| Using appropriate PPE as per Hazard Identification Risk Assessment | 9 | Improper PPE usage causing injuries to parts of body exposed | 9 | Improper usage, handling and not focusing on the job at hand | Safety | Contractor Employees, Visitors, Eskom Employees | Hazardous substances (Transformer Oil), snakes, spiders, scorpions, bees, etc. During working on site daily | Incorrect work methods, not following safety method statements, Risk Assessments not done for tasks, Daily Risk Assessments on tasks not done, unauthorised ORHVS workers, No supervision on employees | Construction Manager Appointed | No | Injury, illness, fatality and property damage,Electrical Burns | SHE talks, safety induction, Risk Assessments (daily), Supervision, SMART Behavioural Safety Observations, Job or Task Observations, etc. | 4 | 2 | II | P | Warning signs in all areas, safety toolbox talks (awareness) | 2 | 1 | IV | Incident records, Safety observations, job observation | Construction Manager Appointed | Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) Regulation 3 of the Environmental Regulations for Workplaces (Lighting). | Project commencement | In Progress | | | |



| | | | | | | |
|--------------|---|------------|-----|-----|-----|-----|
| Consequences | 6 | III | II | I | I | I |
| | 5 | III | II | II | I | I |
| | 4 | IV | III | II | I | I |
| | 3 | IV | III | II | II | I |
| | 2 | IV | IV | III | II | II |
| | 1 | IV | IV | III | III | III |
| | | # | # | # | # | # |
| | | # | # | # | # | # |
| | | # | # | # | # | # |
| | | # | # | # | # | # |
| | | Likelihood | | | | |

| | | | | |
|-----|--------|---|------|-----|
| Yes | Safety | 1 | 1 F | I |
| No | Health | 2 | 2 P | II |
| | | | | III |
| | | 3 | 3 I | |
| | | | | IV |
| | | 4 | 4 TI | |
| | | | | |
| | | 5 | 5 N | |
| | | | | |
| | | 6 | | |

