

Project/Dept: HV Plant			Transmission North East Grid		
Date:			Feb-26		
List activity		Hazard nr		Hazard Identification	
Driving to sites		1		Exposure to adverse weather conditions(rain, mist,fog, Storms,sun glare ect)	
Secondary Plant- Plant Maintenance		2		Exposure to flying Dust particles	
		2		Occupational noise exposure >85dB	
		2		Exposure to elevated positions	
		2		Improper handling of Portable elctrical and non-electrical tools	

DC system Maintenance	3	Inadequate maintenance of Battery bank
Office Administration	4	Poor Ergonomics
Office Administration	4	Incorrect positioning of Computers / Screens and insufficient Office light
Vegetation Management (Grass cutting, Bush clearing , Reeds Fire Management & Tree felling)	5	Incorrect use of Chainsaw/Brush
Installation of bird guards/poles and diverters at an elevated position, deadline maintenance	6	Exposure to Falling objects
Tower Member Replacement	11	Exposure to Drill & Steel Cutter
Line Ground inspection	12	Uneven Surface

Patrolling under the lines (Response Vehicle)	22	Drivng on uneven terrain/gravel roads
Responding to Emergencies (Call-out)	24	Night time driving, attacks, robberies,
Operating	25	High voltage electricity
Maintenance (breakers,isolators, Current Transformers, Voltage transformers, earth switches,current voltage transformers, transformers)	26	Improper handling of the Plant Machinery
Maintenance (high mast lights office/	27	contact with live electricity(low voltage and exposure to height or elevated position
	27	Operating on the wrong panel

<p>(high mast lights, emergency control room lights and plugs switches,)</p>	<p>27</p>	<p>Exposure to heights</p>
	<p>27</p>	<p>Improper handling of SF6 gas / Exposure of SF6 Gas in the GIS</p>
<p>Battery Maintenance</p>	<p>29</p>	<p>incorrect handling of Batteries</p>
	<p>29</p>	<p>exposure to Hydrogen Gas</p>

Operating in the Control Room	30	exposure to hazardous chemical substances
Procurement	31	Delays
Technical specification and standards	32	Non-complying equipment
	32	Delivery and commissioning
Budget	33	Overspend on initial budget

Occupational Health and Safety Baseline Risk Assessment

Portable gas analysers

Refer to Occupational Health and Safety Risk assessment

<i>Existing Controls</i>	<i>Additional Controls or Tasks Aimed at improving Existing Controls</i>
<p>Administrative contineous driver risk assessment and adjust speed and following distances as per prevailing weather condition. Drivers to be cautious when driving in an adverse weather condition, checking of weather forecast, Not to drive in misty conditions, Sleep over for long distance travels prior to appointment</p>	<p>Issuing of the visibility glasses</p>
<p>Administrative Medical surveillance, Awareness on dust exposure effects. PPE Dust mask as and when needed</p>	<p>Procurement of dust masks</p>
<p>Administrative Periodic Medical Surveillance, Noise surveys, Noise exposure awareness, noise zones in all plants are demarcated PPE Wearing of hearing protection, Training on the use of PPE</p>	<p>Demarcation of noise zones. Procurement of hearing protection</p>
<p>Administrative Task risk assessment, medical fitness for duty, Working at heights Training, Fall arrest equipment inspections. ladder inspection, Fall Protection/Rescue plan, Life saving rules adherence</p>	<p>1. Training of fall protection developer and development of fall protection and rescue plan 2. Use of crane mounted truck for L&S and HV Plant departments</p>
<p>Administrative Portable tools Inspections, Pre -task risk assessment, Correct storage of tools, remove damaged tools from site, Job Observation, toolbox talks Issuing of the correct tools to the employees</p>	<p>Develop a work instruction for proper handling of portable electrical/non-electrical tools</p>

<p>Administrative Shower and eye wash available in battery room No smoking sign, no items or metallic objects that can cause a spark or uninsulated tools near the battery terminals as they can cause a shorts across the battery cells, Inspection and testing of hazardous location</p> <p>PPE PPE (Wear acid-proof overalls, Apron, face shield and rubber clothes provided),</p>	<p>Inspection and testing of hazardous location</p>
<p>Administrative Conduct ergonomic surveys as per the OHS Act requirements. Develop and implement office ergonomics program. Medical surveillance program SHE Representative inspections, Behavioural Observations, Continuous awareness,</p>	<p>Procure height adjustable chairs with good back support in the offices and boardroom and laptop stands</p>
<p>Replacement of worn out light sources</p>	<p>Conduct illumination surveys</p>
<p>Administrative Equipment and PPE inspections before use, pre task risk assessment, PPE Establish , training and authorization for equipment usage.</p>	<p>Develop safe working procedures, Develop & Register inspection sheets</p>
<p>Administrative Conduct site risk assessment, Direct & constant Supervision effective communication Hoisting of working tools with rope and a pulley</p> <p>PPE use of correct PPE per the pre task risk assessment</p>	<p>purchasing of two way communication radio</p>
<p>Administrative Proper handling of equipment before working, Task Risk Assessments, training and authorization for equipment usage. Inspection before use of equipment.</p>	<p>1. Develop safe working procedures, 2. Develop & Register inspection sheets</p>
<p>Administrative Risk Assesment, Buddy System</p> <p>PPE Use of correct PPE</p>	<p>Procure and issue hiking sticks where required.</p>

<p>Administrative Safety awareness, Vehicle Inspections, Advanced driver training, Roll Bars installed on all Eskom Vehicles, only licenced drivers are allowed operate vehicles.</p> <p>PPE use of corrct PPE (prescribed overalls, fiream, bullet proof vest,)</p>	<p>New Eskom employees to attend advanced driver training. Recommend installation of Roller bars on all contractor response vehicles</p>
<p>Administrative Safety awareness, Risk Assessment, Regular contractor meetings, Pre-trip inspection, Route Risk assessment and escort by SAPS and security contractor.</p> <p>PPE use of corrct PPE / prescribed overalls, fiream, bullet proof</p>	<p>Procurement and issuing of Bullet proof vest for the new eskom employees, procuremt of flash light (portabl spot lights) for eskom employees</p>
<p>Administrative Implementation of the requirements of the ORHVS Regulation i.e. ORHVS training and authorisation, access management, conduct pre-task risk assessment, complete workers register, Operating instructions, Two way communication Ensure that the panel to be operated on is property identified</p> <p>PPE Use of correct PPE</p>	<p>ORHVS Road Shows, ORHVS Reviews/ Awareness by GMR 2</p>
<p>Implementation of the requirements of the ORHVS Regulation i.e. ORHVS training and authorisation, access management, conduct pre-task risk assessment, complete workers register, work permit in place and, barricading the work environment. - Ensure that the panel to be worked on is property identified, EA Forum</p>	<p>ORHVS Road Shows, ORHVS Reviews/ Awareness by GMR 2, training on specialized machinery, develop safe work procedures</p>
<p>Administrative Training and authorisation, access management, conduct pre-task risk assessment, complete workers register, work permit in place Ensure that the panel to be worked on is property identified, EA Forum, lock out procedure, employee encouraged not to use cellphones while operating. workn plans/schedules and coaching</p> <p>PPE Use of correct PPE</p>	<p>ORHVS Reviews/ Awareness by GMR 2, develop safe work procedures for low voltage maintenace</p>
<p>Administrative Implementation of the requirements of the ORHVS Regulation i.e. ORHVS training and authorisation, access management, conduct pre-task risk assessment, complete workers register, work permit in place and, barricading the work environment. Ensure that the panel to be worked on is property identified</p> <p>PPE Use of correct PPE</p>	<p>ORHVS Road Shows, ORHVS Reviews/ Awareness by GMR 2, training on specialized machinery, develop safe work procedures</p>

<p>Administrative Periodical Medical fitness Person working at heights are trained and certified competent for working at heights by an accredited training provider, Report defective ladders / FAS equipment Use of ladder for light work for short duration. Ladders to be checked before use and maintained in good condition Employees to re-position ladder rather than overstretch Floor surfaces suitable to use (firm and even surface) Securely store ladder and FAS when not in use to avoid unauthorised use Consideration given to environmental conditions prior to starting work. No work to be undertaken in adverse weather conditions (wind, rain, snow etc.) Work only under a permit pre task risk assessment</p> <p>PPE Use of correct PPE</p>	<p>ORHVS Road Shows, ORHVS Reviews/ Awareness by GMR 2, training on specialized machinery, develop safe work procedures</p>
<p>Administrative Periodical Medical fitness, Pre-task Risk Assessment, Hazardous chemical agent's handling training, Training and awareness of top up procedure of SF6 gas. Task risk assessments. Tool box talks</p> <p>PPE Using of correct PPE</p>	<ol style="list-style-type: none"> 1. Training on topping up the SF6 gas breakers, 2. Develop a procedure for topping up SF6 gas breaker. 3. Sharing of Lessons learnt form past or recent incidents 4. Procure Breathing apparatus and gas detectors in GIS Station
<p>Administrative Provided training to employees on the SOPs and work instruction of all activities of the battery room, safety aspects and emergency measures. Do not store lead acid with alkaline batteries and vice versa. Never use acid equipment on alkaline cells or vice versa. The different electrolytes will neutralise each other. Medical surveillance maintenance of battery rooms Displayed signage required Emergency shower and eye wash Pre-task risk assessment before work commences Extraction fans Provide</p> <p>PPE Use correct PPE (Safety goggles; face shield, battery room overalls; suitable gloves to operators).</p>	<p>Training on battery routine maintenance</p>
<p>Administrative: Mechanical ventilation system (Including extraction system), Natural ventilation, Emergency Showers, Medical Surveillance, appointed Trained First Aiders, Monthly inspections of First aid box, SO2 Fire extinguishers, Material safety Data Sheets, Signage, Fully equipped First aid Box, Filter maintenance, Battery Maintenance Training, Pre task risk assessment, TPC 41-550 SOP, TCP 41-572 SOP, Hazardous Chemical Substances awareness training,</p> <p>PPE: (Acid resistance overalls, PVC gloves, PVC Apron, Face Sheild, Safety shoes)</p>	<p>Conduct Baseline area Hydrogen gas sampling</p>

<p>Engineering Mechanical ventilation system (Including extraction system), Natural ventilation,</p> <p>Administrative HCS Inventory, MSDS, EP Plan, Periodic Medical Surveillance, Appointed and Trained First Aiders, Monthly inspections of First aid box, Labelling of the Chemicals, Fire extinguishers, Signage, Fully equipped First aid Box, Filter maintenance, Pre task risk assessment, HCA Awareness training, proper chemical Stores</p> <p style="text-align: center;">PPE</p> <p>Use of correct PPE(Acid resistance overalls, PVC gloves, PVC Apron, Face Shield, Safety shoes)</p>	<p style="text-align: center;">Include the maintenance of extractor fans in the maintenance schedule</p>
<p>Administrative Ensure all supporting document are submitted on time, have a project plan detailing milestone with due dates</p>	<p style="text-align: center;">Appoint project manager to track progress</p>
<p>Administrative use standard and specification to evaluate potential supplier Draft NEC that will ensure both parties adhere to the standard</p>	<p style="text-align: center;">arrange inspections at the OEM before delivery</p>
<p style="text-align: center;">Inspect and test run the equipment on delivery</p>	<p style="text-align: center;">Use the opportunity to train the end user</p>
<p style="text-align: center;">Do a market research and ensure the budget allocated for the purchase</p>	<p style="text-align: center;">budget letter confirming budget allocation for the purchase</p>

ction Tracker (2023 -2024)

		<i>Initial Target Date</i>
		Once a date has been agreed to, this can not be changed

t procedure 32-520

<i>Target Date for Completion</i>	<i>Completion Date</i>	<i>Status (Completed/On going/Not Applicable)</i>
Mar-24		In progress
Mar-24		In progress
Mar-24		In progress
Mar-24		In progress
Mar-24		In progress

Mar-24		In progress
Mar-24		In progress
Mar-24		In progress
Mar-24		In progress

Mar-27		In progress
Mar-27		In progress
Mar-27		In progress
Mar-27		In progress
Mar-27		In progress

Initial Target Date
Once a date has been agreed to, this can not be changed



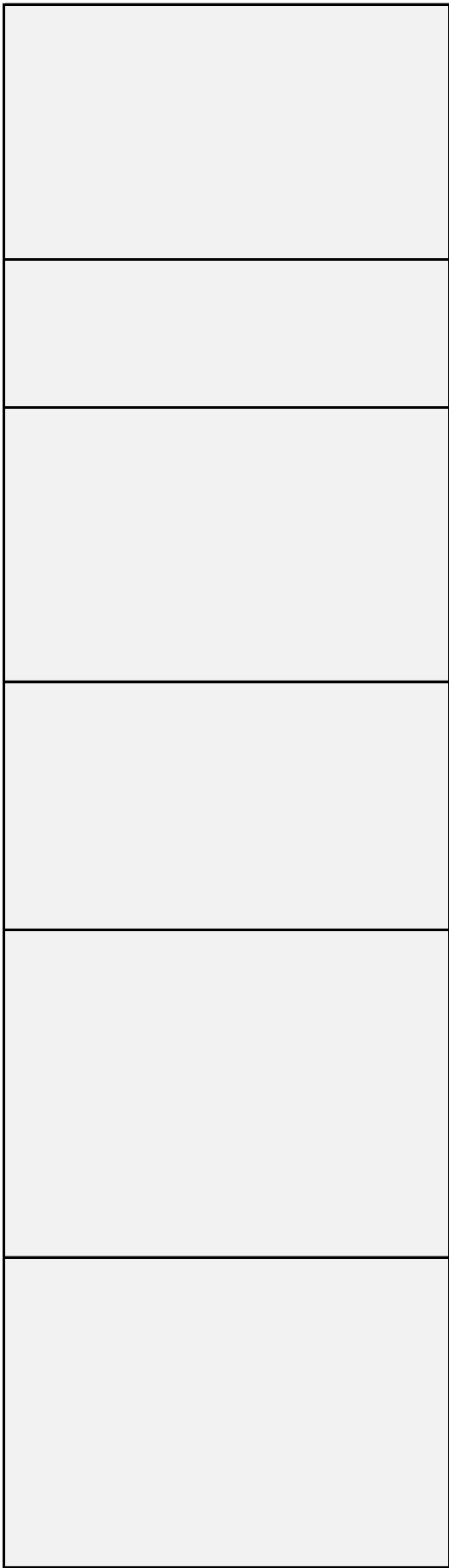
Comments
responsible line manager/supervisors to procure dust masks for their employees.
Responsible CLN Supervisors to demarcate noise zones as per Noise survey reports
NEG Fall Protection Plan development work group has been established. The development of the FPP is in progress.
Partially met_some equipment have manufacturer's safe work procedures and work instruction still needs to be developed

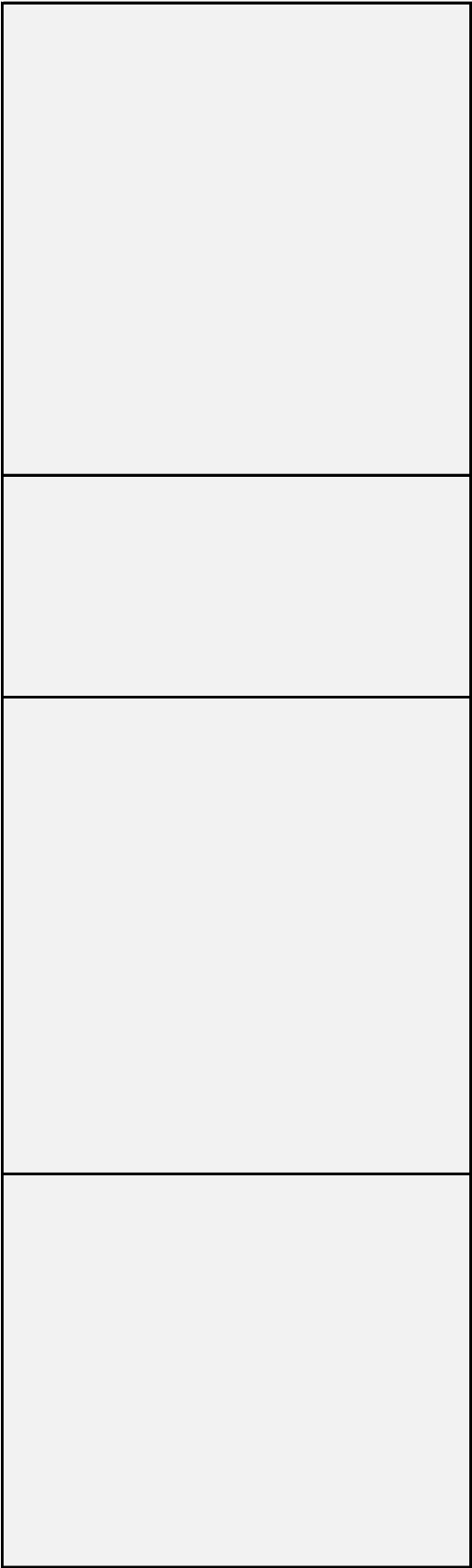
Contract has been established and started in July 2023.

Site office/boardroom assessment to be completed and findings communicated to management.

All sites have been surveyed. All identified worn-out light fittings are being replaced.

Partially met_some equipment have manufacturer's safe work procedures and work instruction still needs to be developed





Arrange regular meetings with all stake holder
to monitor progrees

Final approval of the inspection should be
approved by Engineering

Competent person to lead the activity

The responsible manager must co-sign the
budget letter