



VUL-SWP-144(1)-Setup Lighting Plant

SAFE WORK PROCEDURE (SWP)			
Description	Setup Lighting Plant		
Site	Vulcan Mine		
Department	Operations		
PPE Required		Job Hazard Analysis Reference	
 Safety helmets must be worn in this area		Other Relevant Information ☐ Relevant OEM instructions & specification available	
 Ear protection must be worn			
 Protective footwear must be worn		☐ Permit Required – number:	
 Protective gloves must be worn			
 High visibility clothing must be worn in this area		☐ OCE Report	
 Eye protection must be worn			
VUL SOP / PRO Reference		☐ Pre-start Meeting	
VUL_MOP_35 Emergency Management			
VUL_SOP_65 PPE			
VUL_SOP_73 Checking Mobile Plant			
VUL_MOP_144 Lighting			
VUL_SOP_94 Check, Examine & Restrict Work Area			
VUL_MOP_128 Design & Construction of Mine Roads			
VUL_SOP_72h Servicing and Refueling			
VUL_MOP_144 Lighting			
VUL_TAR_003 Geotechnical Failure			
VUL_SWP_076-1 Dozer Operations			
People, Equipment, Materials and Tools Required			
People	Equipment	Materials	Tools
Production Supervisor	Dozer's		Prestart Checklist
Open Cut Examiner	Service Cart		Take 5
Operator	Light Vehicles		
Service Cart Operator	Lighting Plants		



1. Area Inspection

- 1.1 Area to be inspected to determine suitability/required actions to take to improve conditions to suit operations coming into the area as per VUL-SOP-94 Check, Examine and Restrict Work Areas.
- 1.2 Consult OCE/Geotechnical personnel regarding new or identified geotechnical issues

2. Prepare the Lighting Plant for Towing

- 2.1 Conduct a Take 5 as a minimum prior to undertaking any work;
- 2.2 Ensure personal are trained and authorized before undertaking the task;
- 2.3 Ensure the lighting plant is positively isolated and a prestart check and or walk around inspection is carried out in accordance in VUL_SOP_073 Checking Mobile Plant;
- 2.4 Ensure access to the lighting plant towing point is suitable for the towing vehicle;
- 2.5 Start the lighting plant;
- 2.6 Retract the lighting plant mast and lower the boom;
- 2.7 Check that the tow hitch height is approximately correct for the light vehicle.



3. Connect the Lighting Plant to the Light Vehicle

- 3.1 Only light vehicles with a towing capacity of greater than 3000kgs are permitted to tow and move lighting plants;
- 3.2 Use a spotter if required – ensure you remain out of the line of fire in case of unplanned movement of the light vehicle while reversing;
- 3.3 The spotter must maintain visual contact with the vehicle operator at all times;
- 3.4 The spotter must stop the vehicle short of the connection point and check the draw bar height is correct to prevent damage to the rear of the vehicle;
- 3.5 The spotter shall assist the vehicle operator to position the lighting plant hitch above the vehicles tow ball;
- 3.6 The operator is to remain in the light vehicle until the spotter has connected the hitch to the tow ball and keep fingers out of potential pinch points;
- 3.7 All Safety chains are to be connected from the draw bar to the towing vehicle using the crossed chains/saddle method;
- 3.8 Check and ensure all stabilisers are fully raised;



- 3.9 Check the drawbar connection is made correctly and is secure;
- 3.10 Check all safety pins and chains are in place and secure;
- 3.11 Check that the lighting plant is turned off before traveling



4. Drive to the Required Location

- 4.1 Ensure light vehicle driver is authorized and competent to operate light vehicles and lighting plants at Vulcan Mine;
- 4.2 Drive light vehicle to suit conditions;
- 4.3 The lighting plant is to be towed no more than 40km/h;
- 4.4 When towing down ramps the speed is limited to 20km/h;
- 4.5 During inclement weather 4wd must be engaged.

5. Position the Lighting Plant

- 5.1 Bunding shall be installed prior to the light being positioned in active mining areas; (see diagrams below for preferred methods with HME interaction);
- 5.2 Bunding used shall be of competent material;
- 5.3 Positive communication shall be used in all operation areas to advise operators of activity in their work area;
- 5.4 Lighting plants must be setup on level ground and elevated where possible;
- 5.5 Ensure lighting plants are outside primary stand-off zones;
- 5.6 Consider the nature of the job and traffic flow in and around the lighting plant;
- 5.7 Use a spotter if required;
- 5.8 Chock the wheels of the lighting plant to ensure fundamentally stable.



Figure 1 – With LV Park-up

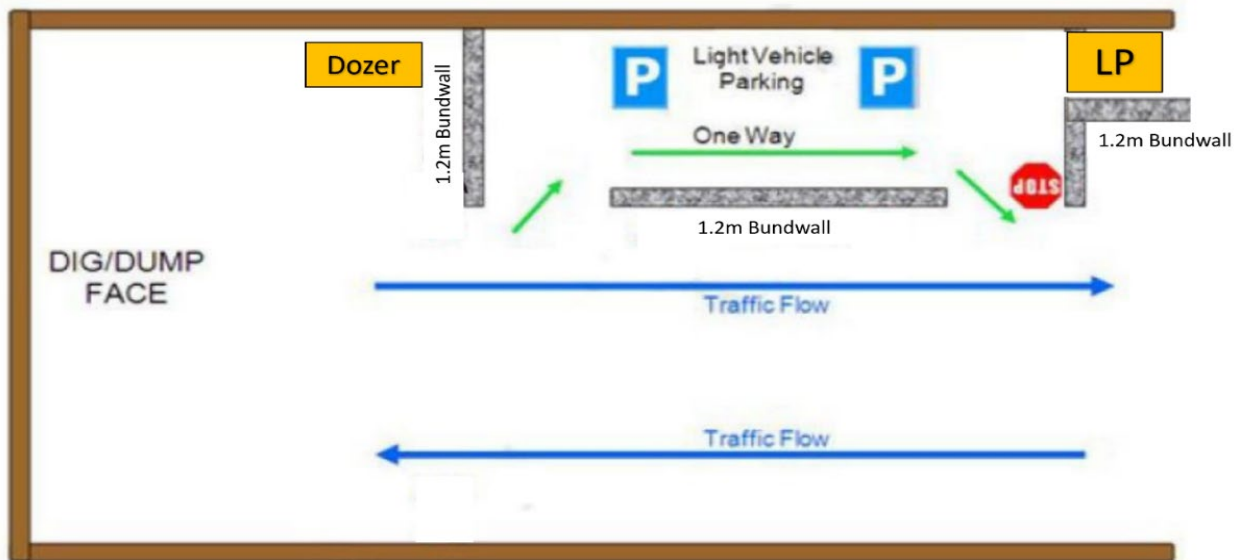
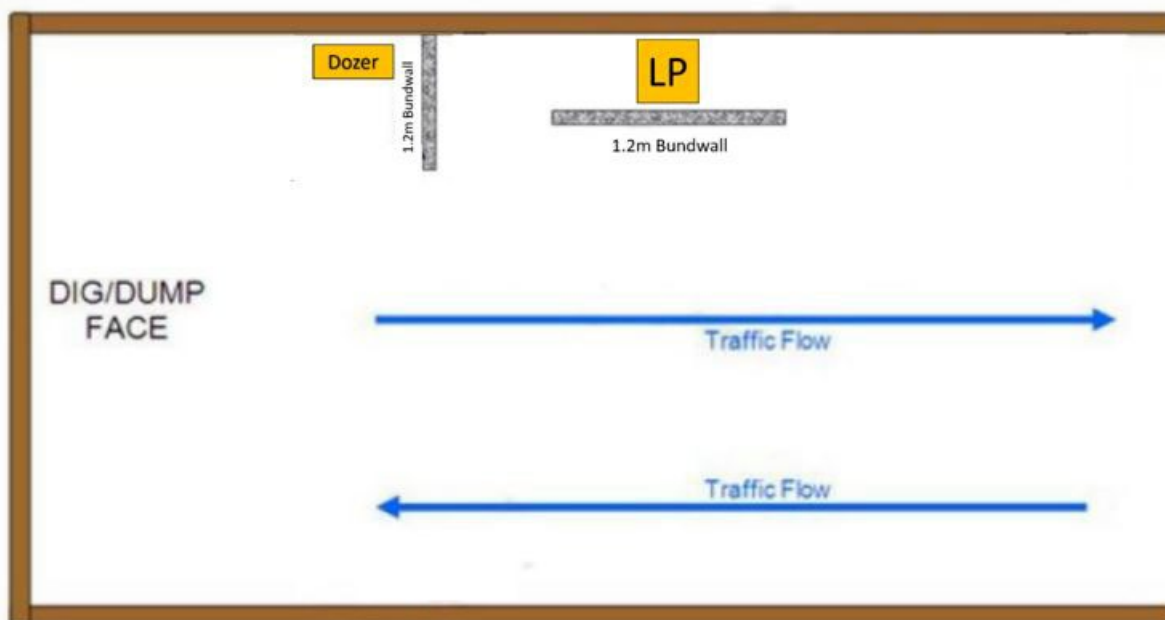


Figure 2 – Drive through style



- 5.9 If preferred methods of positioning cannot be achieved, consult Supervisor/OCE to ensure an acceptable level of risk is achieved
- 5.10 Ensure lighting plant illuminates the working face as per VUL-MOP-144-Lighting 4.2.

6. Un-hitch the Vehicle and Move away from the Lighting Plant

- 6.1 Start the lighting plant
- 6.2 Stand clear of folding hydraulic legs
- 6.3 Ensure that the rear legs take the weight of the lighting plant before lowering the front legs to detach it from the tow vehicle
- 6.4 Remove the chains and towing hitch pin, then lift the tongue on the connection point
- 6.5 Raise the lighting plant tow hitch above the towing ball
- 6.6 Ensure safety chains are detached before moving the light vehicle away



7. Setup the Lighting Plant

- 7.1 Only the operator is to be in the immediate area
- 7.2 Level the lighting plant with the hydraulic legs
- 7.3 Raise the boom and extend the mast
- 7.4 Tilt and rotate the lighting plant head to the desired location to illuminate
- 7.5 Communicate with operators in the area to determine the effectiveness of the lighting plant

• WORKER SIGN-OFF

I confirm that I have read and understood the Safe Work Procedure for VUL-SWP-144 (1)-Setup Lighting Plant which is available to me and I will follow in the event of undertaking this task.

Name:			
Company:			
Date:		Job Title:	
Signature:			