

Appendix 1 Trigger Action Response Plan (TARP)

ALERT LEVEL	GREEN	AMBER	RED
Distance / alert trigger	No lightning activity detected within: 30km of MAC in the previous 15 minutes	Lightning activity detected: 15 - 30km from MAC in the previous 15 minutes	Lightning activity detected: 0 – 15km from MAC in the previous 15 minutes
Downgrade trigger	N/A	No lightning activity within 15 - 30km of MAC for continuous 15 minute period	No lightning activity within 0 - 15km of MAC for continuous 15 minute period
Dispatch	Continue normal operations	Notify all employees and contractor supervisors of the change to lightning alert level, via the 2 way, when the WeatherZone API is not operational Review Nitrogen register for non-compliant Rubber tyred equipment (>24”) and direct them to park in a Hazardous tyre park up location. Direct LV Transport to nominated location to pick up impacted Operators and transport them to safe location.	Notify all employees and contractor supervisors of the change to lightning alert level, via the 2 way, when the WeatherZone API is not operational Confirm with Mt Arthur South Dispatch that Rubber Tyred equipment (>24”) without Nitrogen are not to enter Mt Arthur North Shared Zones. Equipment already in the Mt Arthur North shared zone shall exit shared zone immediately
OCE	Continue normal operations	Review activities that are occurring (including high risk tasks) and prepare for requirements if upgrading to red alert. This includes notification of those personnel working remote. Advise dispatch on appropriate Hazardous tyre park up location for equipment without Nitrogen in all positions. Review Coal Haulage with Mt Arthur South in preparation for Red TARP Level. No further Mt Arthur South Rubber Tyred equipment (>24”) without nitrogen shall cross into the Mt Arthur North shared zone. Equipment already in the Mt Arthur North shared zone shall complete their run and then exit shared zone immediately.	Supervise red alert level requirements for activities in area of responsibility Ensure all personnel are in a safe location Rubber-tyred equipment (>24 inches) must not enter into another statutory or shared zone during a Red Lightning Alert unless both statutory OCEs (BHP and Thiess) agree on controls, travel path and the equipment is either: (a) operating in an area where no non-compliant (air filled) equipment is present, or (b) operating in an area exclusively containing rubber-tyred equipment (>24 inches) with tyres filled with nitrogen.
Maintenance and CHPP Supervisors	Continue normal operations	Review activities that are occurring (including high risk tasks) and prepare for requirements if upgrading to red alert. This includes notification of those personnel working remote. Notify all employees and contractor supervisors of the change to lightning alert level, via the 2 way, when the WeatherZone API is not operational For rubber tyred equipment without Nitrogen in all positions – Equipment must remain within workshop (not on apron) OR be immediately transferred to tyre bay for Nitrogen filling OR parked in safe location with rims facing away from occupied areas.	Supervise red alert level requirements for activities in area of responsibility. Consider closing doors of Workshop Ensure all personnel are in a safe location Notify all employees and contractor supervisors of the change to lightning alert level, via the 2 way, when the WeatherZone API is not operational
Supervisors of Contracted Activities	Continue normal operations	Review activities that are occurring (including high risk tasks) and prepare for requirements if upgrading to red alert. This includes notification of those personnel	Supervise red alert level requirements for activities in area of responsibility Ensure all personnel are in a safe location Follow TARP requirements for Rubber tyred

		working remote. Follow TARP requirements for Rubber tyred equipment as indicated in Rubber tyred equipment Section of the TARP below	equipment as indicated in Rubber tyred equipment Section of the TARP below
All Personnel	Continue normal operations	Continue normal operations (unless conducting a high risk activity, which may need to be stopped)	Adhere to red alert level requirements for activities being conducted Move to safe location or remain in cab of equipment
All Electrical Workers	Continue normal operations	Withdrawal of personnel conducting work on exposed electrical reticulation. i.e. open switch yards, mobile subs and OHL Continue other normal operations (review using a risk based approach if conducting a high risk activity which may need to be stopped)	All work on conductors connected to the electrical network not separated by a visible break shall cease until downgrade to amber alert level. Field maintenance activities shall cease and personnel move to a safe location. Maintenance activities may continue if they are within a workshop/ building structure, however no work shall take place on the aprons and equipment being worked on must also be completely under the roof of the workshop. Move to safe location or remain in cab of equipment
Blasting and Shot Firing Activities	Continue normal operations	Blasting activities shall be managed in accordance with MAC-PRD-PRO-059 Actions in the Event of an Electrical Storm.	Blasting activities shall be managed in accordance with MAC-PRD-PRO-059 Actions in the Event of an Electrical Storm.
Crane Work, EWP's, Cherry Pickers, Bucket Trucks	Continue normal operations	Continue normal operations (Review using a risk based approach if conducting a high risk activity which may need to be stopped) - Personnel to be notified of change to lightning alert level. Monitor radio for potential upgrade to alert level	All mobile cranes, manitous and all forms of elevated work platforms in use, shall cease work and be lowered and retracted as much as possible. Personnel associated with this work shall move to a safe location.
Refuelling Activities	Continue normal operations	Continue normal operations and monitor radio for potential upgrade to alert level	All refuelling activities shall cease (Disconnect hose from equipment). This includes refuelling of lighting plants and ancillary equipment on waste dumps. Personnel associated with this work shall move to a safe location or remain in the cabin of the mobile equipment.
Maintenance Activities	Continue normal operations	Continue normal operations (Review using a risk based approach if conducting a high risk activity which may need to be stopped) Personnel to be notified of change to lightning alert level	Field maintenance and in pit servicing activities shall cease and personnel move to a safe location. Maintenance activities may continue if they are within a workshop structure, however no work shall take place on the aprons and equipment being worked on must also be completely under the roof of the workshop.
Drilling Activities	Continue normal operations	Production drilling activities are to continue normal operations and monitor radio for potential upgrade to alert level. Exploration drilling activities are to continue normal operations and monitor radio for potential upgrade to alert level. All bore hole logging activities shall cease. Attempt to recover the tool to the surface, in preparation for securing the tool (radiation source). If you can't safely get the tool to surface in time, then you should get the tool to a safe level and then put winch brake on, record the tool depth and shut down the onboard surface equipment (SCI) and wait it out in an fully enclosed vehicle.	Production drilling activities are to continue normal operations while the drill operator can remain in a fully enclosed cab with the mast in a raised position. Exploration drilling activities shall cease as drillers and offsideers are required to be outside of equipment. Drillers and offsideers shall move to a safe location. Monitor red alert level requirements. All bore hole logging activities shall cease and personnel associated with this activity shall seek shelter in an fully enclosure vehicle.
Tracked equipment (excluding drilling activities)	Continue normal operations	Continue normal operations and monitor radio for potential upgrade to alert level	Activities are to continue, in line with normal operations, with the operator of the mobile tracked equipment inside a fully enclosed cabin. During a thunderstorm, the surrounding metal structure of a mobile equipment cabin provides protection in the event of a lightning strike

			When required to move between mobile equipment and other safe locations, workers safely park the mobile equipment, as close as practical to the safe location, and minimise exposure while moving between safe locations.
Tyre Bay Supervisor	Continue normal operations	Liaise with Dispatch to confirm equipment without Nitrogen in all positions. Ensure rim assemblies with tyres fitted without Nitrogen are brought under cover of tyre bay. Review activities that are occurring (including high risk tasks) and prepare for requirements if upgrading to red alert. This includes notification of those personnel working remote.	Supervise red alert level requirements for activities in area of responsibility Ensure all personnel are in a safe location
Rubber tyred equipment (Tyres >24" Diameter)	Continue normal operations	Rubber tyred Equipment with Nitrogen in all positions are to continue normal activities, in line with normal operations. Operator's of Mt Arthur North Rubber Tyred Equipment without Nitrogen in all tyres are to park up as directed by Dispatch (or contract supervisor as relevant) and exit equipment to a safe location. Ensure that equipment is parked in a direction that will minimise line of fire risk to bystanders in the event of a tyre explosion. Operator's of Mt Arthur South Rubber Tyred Equipment without Nitrogen in all tyres are to prepare to exit Mt Arthur North shared zone. If not already in the Mt Arthur North shared zone, Mt Arthur South Rubber Tyred Equipment without Nitrogen shall no longer cross into Mt Arthur North shared zone.	Activities are to continue, in line with normal operations, with the operator of the mobile equipment, inside a fully enclosed cabin. During a thunderstorm, the surrounding metal structure of a mobile equipment cabin, provides protection in the event of a lightning strike Operations are not to continue at the highest dump level within the respective dump system and operations are to move to any lower level, which is practical and trafficable in the wet. When required to move between mobile equipment and other safe locations, workers safely park the mobile equipment, as close as practical to the safe location, and minimise exposure while moving between safe locations. Operator's of Mt Arthur South Rubber Tyred Equipment without Nitrogen in all tyres are not to enter Mt Arthur North shared zone. Equipment already in the Mt Arthur North shared zone shall exit immediately.
CHPP Operations & Maintenance	Continue normal operations	Continue normal operations (Review using a risk based approach if conducting a high risk activity which may need to be stopped eg.: work at outdoor high points, stacker booms, ROM hopper dust hood)	CHPP activities may continue during a lightning red alert event as long as activities are inside buildings or operator remains in dozer cabin. Stockpile dozer operation may continue through lightning red alert event. To prevent side strikes it is best that the dozer keeps clear of lighting towers and stackers and stays in the middle of the pile (irrespective of height).
All Personnel working in outdoor and open spaces	Continue normal operations	Continue normal operations (unless conducting a high risk activity, which may need to be stopped)	Work in the open (and not within mobile plant) is to stop and personnel are to make their way to a safe location (e.g. inside buildings or structures, or cab of equipment).
Communications during Electrical Storms	Continue normal operations	Continue normal operations	Hardwired communication systems should be avoided during a lightning red alert event. Handheld two-way radios, cordless phones and mobile phones are a safe means of communication.