

Task: _____
 Location: _____
 Site: _____

Name: _____
 Date: _____
 Time: _____

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UNPLANNED INITIATION OF EXPLOSIVES

Blasting Exclusion Zones and Access Control Y N N/A

1. Is the blast site protected against unauthorized entry while explosive materials or initiating systems are on the blast site? Y N N/A
2. Before firing a blast, are all access routes protected against unauthorized entry? Y N N/A
3. Was sufficient warning given to allow all persons to be evacuated from the blast site? Y N N/A
4. Have all persons evacuated the blast area prior to attaching a source of initiation? Y N N/A
5. Was the area inspected for misfires by a authorized/competent person after the blast and prior to resuming work in the blast site? Y N N/A
6. Has sufficient time allowed to lapse to dissipate gasses from blasting? Y N N/A
7. Did all the fly rock stay within the blast area? Y N N/A

Execution of Charging, Stemming and Handling Protocol Y N N/A

8. Is the blast site protected against unauthorized entry while explosive materials or initiating systems are on the blast site? Y N N/A
9. Are blast site activities limited to those directly related to blasting operations once loading begins? Y N N/A
10. Is unused explosive material removed to a protected location after loading operations are completed? Y N N/A
11. Have blast holes been checked for obstructions prior to loading? Y N N/A
12. Are explosives and blasting agents kept separated from detonators until loading begins? Y N N/A
13. Are primers made only at the time of use and as close to the blast site as conditions allow? Y N N/A

Inspection of Explosives Transportation Vehicle Y N N/A

14. Has a pre-start inspection been done on the vehicle containing the explosives and does it match the actual condition of the vehicle? Y N N/A
15. Is the transportation vehicle equipped with fire extinguisher or fixed fire suppression equipment? Y N N/A
16. Are placards placed on the transportation vehicle indicating the contents? Y N N/A
17. Does the vehicle explosives storage compartment meet regulatory requirements? Note: With proper separation for caps and explosives. Y N N/A

Management of Misfires Y N N/A

18. Did the appropriate wait time lapse before the work area inspected for misfires after blasting? Y N N/A
19. Was post-blast communication provided to mining personnel that no misfires were detected? Y N N/A
20. Is the area free of indications of a misfire? Y N N/A
21. If a misfire is suspected did personnel wait a minimum of 30 minutes before entering the area? Y N N/A
22. If a misfire is suspected, are proper work area controls in place? Y N N/A
23. Does the misfire removal comply with the misfire management procedure? Y N N/A
24. Was the exclusion zone maintained until the misfire all clear signal is provided? Y N N/A

Comments: If a critical control can not be verified, please indicate the nature of the failure including the question(s) that you answered no.



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RioTinto

Operator / Maintainer Critical Control Checklist (CCC)

Printed: Nov 29 2017

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UNPLANNED INITIATION OF EXPLOSIVES

Segregation of Explosives during Transportation **Y N N/A**

- 25.** Is the transportation vehicle attended or have you verified that the cargo compartment is locked?
- 26.** Are detonators kept in original packaging as shipped from the manufacturer or in closed containers?
- 27.** Are detonators separated from explosives or blasting agents?
- 28.** Have you checked the passenger area to verify that it is free from explosive material?
- 29.** Is the explosive box constructed according to regulatory requirements? Note: Wood lined Transportation boxes

Storage Exclusion Zones and Access Control **Y N N/A**

- 30.** Is the explosive storage area free of potential sources of ignition?
- 31.** Is the explosives storage area properly segregated, fenced, signed and labeled?
- 32.** Is the exclusion zone free and clear of non-permissible structures and activity?
- 33.** Have you obtained permission to enter restricted areas?
- 34.** Are the explosive storage magazines electrically grounded?
- 35.** Are all explosives secured by lock and key?
- 36.** Is access to the keys restricted only to authorized personnel?

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