Thompson: JAWS Jannatec Advanced Warning System Orientation

1. JAWS-TRAINING MANUAL (1)

1.1 JAWS Training Maetrial



1.2 OUTLINE

OUTLINE



- 1. WHAT IS JAWS?
- 2. HOW JAWS WORKS
- 3. ZONES & ASSETS
- 4. JAWS SCREEN
- 5. TESTING VEHICLE JAWS UNITS
- 6. USING/TESTING CAP LAMPS



1.3 WHAT IS JAWS

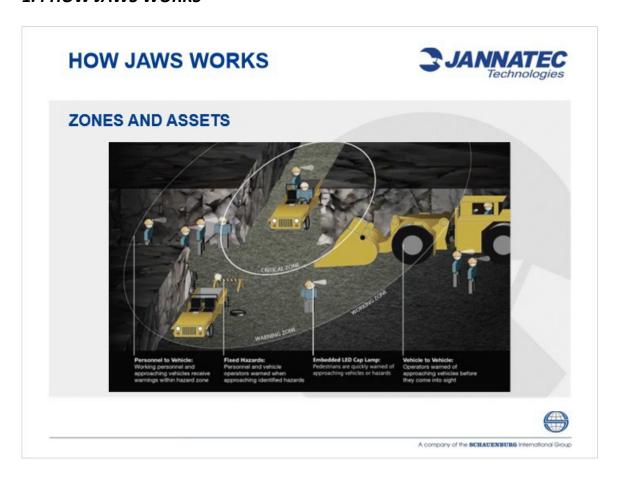
WHAT IS JAWS



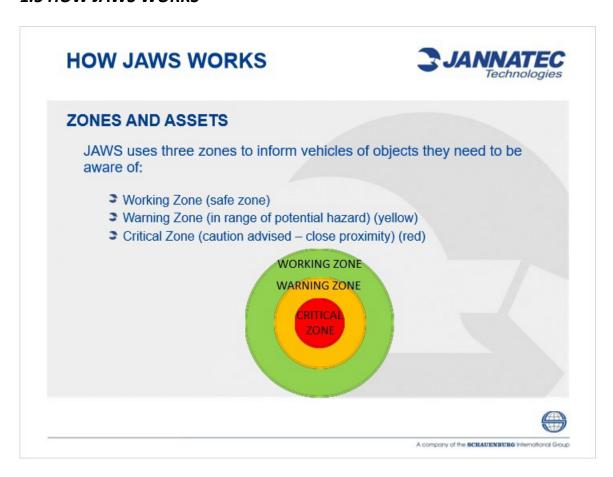
- Jaws is a Peer to Peer application that leverages radio frequency transceivers for proximity detection without the need for any additional mine infrastructure.
- 2. Improves situational awareness of vehicle operators and personnel.
- 3. Uses 900 MHz radio frequencies to relay proximity of:
 - A. Vehicle to vehicle
 - B. Vehicle to personnel
 - C. Personnel to Vehicle
 - D. Fixed Hazard to vehicle
- 4. Easily integrated into current safe working practices



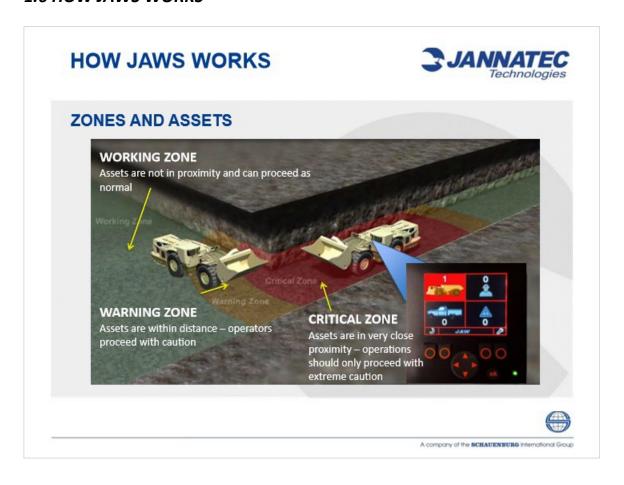
1.4 HOW JAWS WORKS



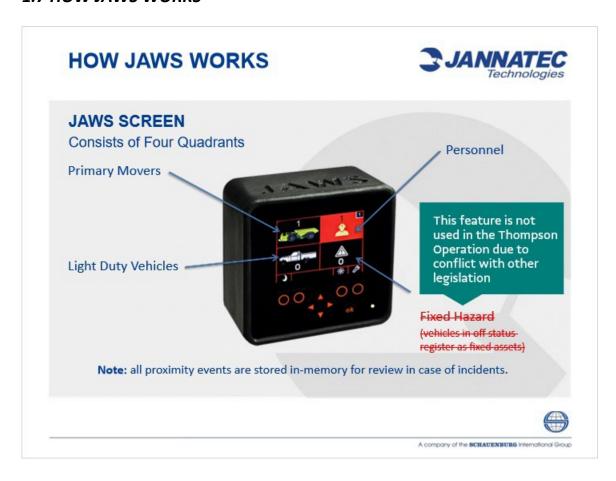
1.5 HOW JAWS WORKS



1.6 HOW JAWS WORKS



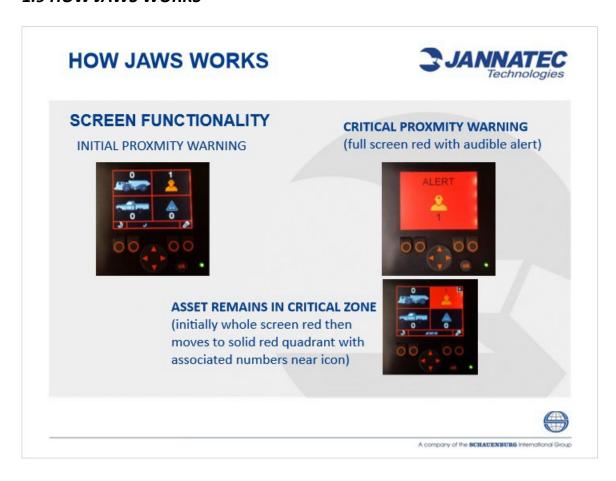
1.7 HOW JAWS WORKS



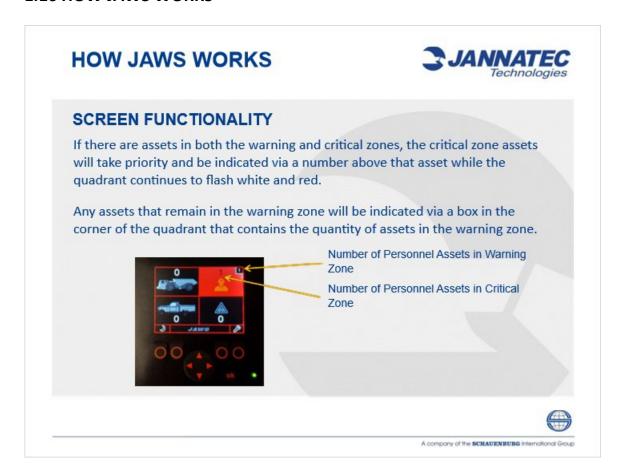
1.8 HOW JAWS WORKS



1.9 HOW JAWS WORKS



1.10 HOW JAWS WORKS



1.11 HOW JAWS WORKS

HOW JAWS WORKS



SCREEN FUNCTIONALITY

JAWS will display all of the assets within range at one time as in the images below:





This feature is not used in the Thompson Operation due to conflict with other legislation

IMPORTANT NOTE:

When a vehicle is turned off/not running since the JAWS unit is connected to the primary power of the vehicle it will always be recognized by the JAWS system. Any vehicle turned off-will appear as a fixed asset on the system until turned on at which point it will automatically then switch to be recognized as it's vehicle ID type.



1.12 TESTING JAWS VEHICLE UNITS PRIOR TO SHIFT - STEPS

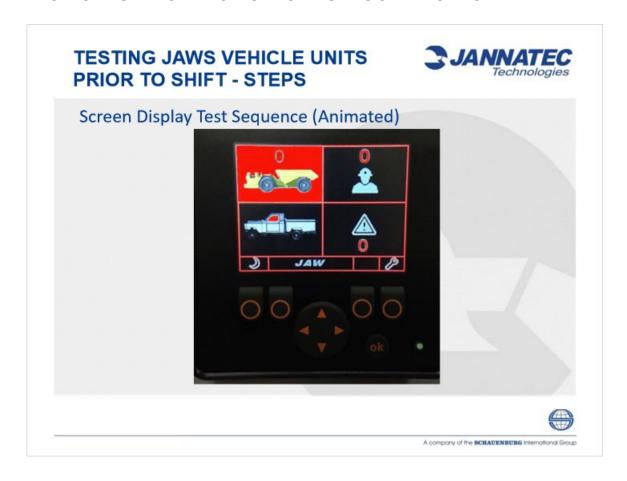
TESTING JAWS VEHICLE UNITS PRIOR TO SHIFT - STEPS



- 1. Vehicle operator turns on ignition of vehicle
- The JAWS unit will power up and an audio tone (beep) will sound
- 3. Operator will have to acknowledge the disclaimer screen or the unit will continue to beep until this has been done.
- 4. The vehicle operator will be prompted to perform a functional check. *If you are not near another vehicle, your cap lamp will need to be turned on to perform this test.*
- 5. The vehicle operator will select the 'OK' button to start test
- 6. The test commences to ensure RF functionality is working by displaying the standard JAWS screen with assets.
 - Each asset quadrant will turn RED one by one verifying screen functionality



1.13 TESTING JAWS VEHICLE UNITS PRIOR TO SHIFT - STEPS



1.14 Untitled Slide

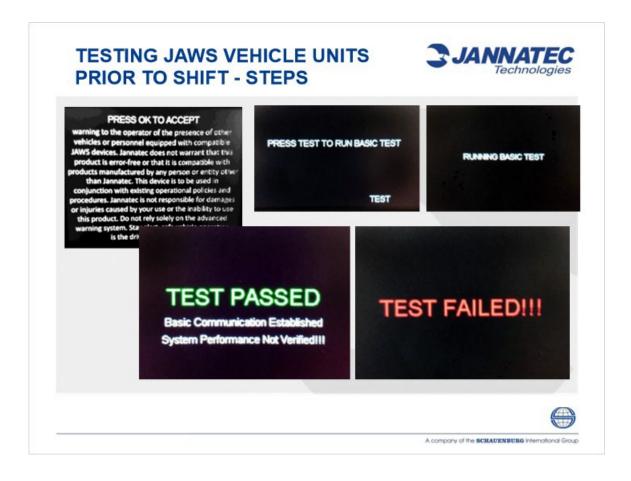
TESTING JAWS VEHICLE UNITS PRIOR TO SHIFT - STEPS



- Once the test is complete the unit will indicate a PASS/FAIL result on screen.
- If PASS, the operator can continue with their work
- If FAIL, the unit will continue to emit the audible tone as the JAWS unit will need to be serviced.
- Continued operation after a 'FAIL' result is not recommended and this can be identified based on reviewing stored data on the vehicle unit.
- Operators should follow outlined protocol for replacement of the vehicle JAWS Unit.



1.15 TESTING JAWS VEHICLE UNITS PRIOR TO SHIFT - STEPS



1.16 CAP LAMP FUNCTIONALITY

CAP LAMP FUNCTIONALITY

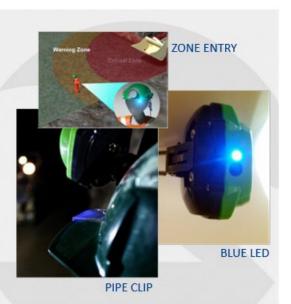


PROXIMITY ALERTS

When a vehicle equipped with a JAWS unit comes within the proximity of personnel wearing a JAWS capable cap lamp, a blue LED on the base of the cap lamp will light up notifying the resource of the proximity alert. The blue LED is very bright and easily visible through a reflection on the pipe clip provided for the workers helmet.

NEVER IGNORE THE BLUE LIGHT!!

Once there are no vehicles within the proximity of that worker, the LED will turn off indicating to the worker that they are back in the safe working zone.





1.17 CAP LAMP FUNCTIONALITY

CAP LAMP FUNCTIONALITY TESTING YOUR CAP LAMP



Prior to heading underground for each shift, **EVERY** worker is required to test their cap lamps to ensure the JAWS functionality is working.

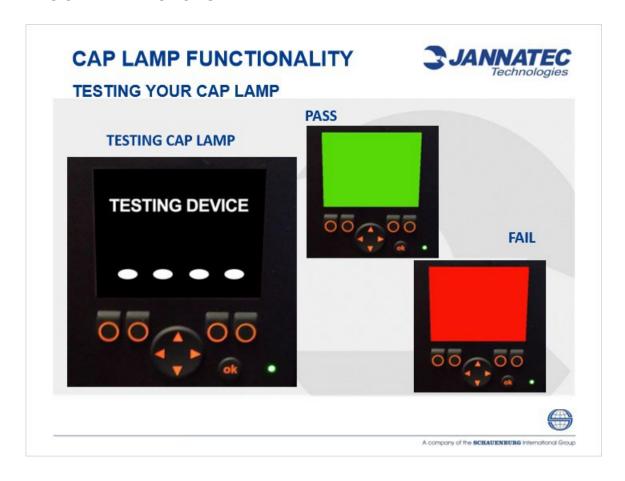
STEPS:

- Place your cap lamp on the circular area on one of the personnel verification units. (For best results, always place the lamp front facing the unit while holding the back of the cord to prevent unwanted interference.)
- 2. Press 'OK' to initiate test. Test Begins.
- The screen will turn GREEN for pass and will turn RED for fail.
- 4. If your cap lamp fails, obtain a replacement unit and re-perform test.
- 5. DO NOT PROCEED UNDERGROUND IF YOUR UNIT HAS NOT PASSED!





1.18 CAP LAMP FUNCTIONALITY



1.19 Untitled Slide





HAVE A SAFE DAY!!

If you have any questions surrounding the functionality of the JAWS System please do not hesitate to contact your Jannatec Account Representative or contact the Jannatec office.

Email: sales@Jannatec.com Phone: 705-566-3939

