

High Visibility/Reflective Safety Garments

I PURPOSE

To specify a standard requirement for high-visibility apparel for employees, contractors or other visitors who may be entering potentially hazardous work areas. The safety apparel covered under this standard is intended to provide increased visibility of the wearer under any light conditions.

2 POLICY REQUIREMENTS

This policy sets two (2) standards...one for high-visibility apparel that is currently being utilized at existing operations. The second is for any new operations or any apparel which is purchased as a replacement for current apparel.

The requirements of this policy are the minimum standard for all operations.

Colors

Garments and/or striping must be of a recognized high-visibility color (currently fluorescent red-orange or fluorescent yellow-green)

Striping Pattern

All current surface operations shall use a vest in either of the approved high visibility colors with retroreflective striping in the ANSI/ISEA 107-2004 Class 2 pattern for the US Operations or the AS/NZS 4602:1999 D/N pattern for the Australian Operations. If other workwear, such as high visibility tee shirts, are worn by personnel without the vest, the apparel shall include striping of ANSI Class 2 pattern. Coveralls worn over other clothing must include combination striping in the ANSI Class 3 pattern as illustrated in Exhibit 4.

All current US underground operations shall use apparel which has striping that includes combination retroreflective striping and high visibility background striping in a pattern of two stripes on each leg, a lateral striping on the front and back of the torso and a stripe running the length of each sleeve. If an underground miner is wearing bib overalls, the striping pattern shall be the same as listed above. In addition, any shirt worn under the bib overalls will have reflective striping on the sleeves.

All current Australian underground operations shall use apparel which meets the requirements of AS/NZS 4602:1999 Type N garment, with striping added to the arms and legs.

If a jacket is worn over work clothes it must meet the high visibility and reflective striping requirements outlined above.

Striping on acceptable garments must be a minimum width of 2 inches (5.08 cm). The retroreflective strip must be a minimum of 1/2inch (1.27cm). Each approved underground garment will contain high visibility striping and retroreflective striping which will be visible from all directions.

3 GENERAL REQUIREMENTS: NEW OPERATIONS OR REPLACEMENT GARMENTS

Colors

Garments and/or striping must be of a recognized high-visibility color (currently fluorescent red-orange or fluorescent yellow-green)

Striping Pattern

All new surface operations shall use a vest in either of the approved high visibility colors with retroreflective striping in the ANSI/ISEA 107-2004 Class 2 pattern for the US Operations or the AS/NZS 4602:1999 D/N pattern for the Australian Operations. If other work wear is worn by personnel without the vest, the apparel shall include striping of ANSI Class 3 pattern or the 1999 D/N pattern.

All new US underground operations shall use apparel which has striping that includes combination retroreflective striping and high visibility background striping in a pattern of two stripes on each leg, a continuous lateral stripe around the torso, stripes over each shoulder connecting with the lateral torso stripe both front and back, a stripe running around the arm above the elbow and if long sleeve a stripe running around the arm below the elbow. If an underground miner is wearing bib overalls, the striping pattern shall be the same as listed above. In addition, any shirt worn under the bib overalls will have reflective striping around the sleeves at the locations described previously. ANSI Class 3 pattern.

All new Australian underground operations shall use apparel which meets the requirements of AS/NZS 4602:1999 Type N garment with striping added to the arms and legs in accordance with Appendix A – Figure A1 (b) Pants and shirt.

If a jacket is worn over work clothes it must meet the high visibility and reflective striping requirements outlined above.

Striping on acceptable garments must be a minimum width of 2.5 inches (6.3 cm). The retroreflective strip must be a minimum of 1 inch (2.54cm). Each approved garment will contain high visibility striping and retroreflective striping which will be visible from all directions.

4 CONTRACTORS AND VISITORS

Contractors who are only required to have hazard training, except over the road coal truck drivers, will be required to wear a high visibility harness or vest provided by the mine, while on mine property. Contractors whose employees are required to have 24 hour surface training or 40 hour underground training and over the road coal truck drivers must supply their own high visibility garments or apparatus to comply with the requirements of this policy.

Visitors who are only required to have hazard training will be provided high visibility vests or harnesses by the mine, while they are on mine property.

5 OTHER CONSIDERATIONS

Special consideration shall be given to employees whose duties require them to perform 'hot work' (welding, cutting, etc). Such employees shall wear cotton material or other proven flame-retardant material.

Leather aprons worn for welding operations in the shop areas should be removed when not performing stationary operations such as welding at a bench, in a bucket shop or other enclosed areas.

High visibility and reflective materials shall be maintained in a condition that does not allow them to become worn or dirty to a point that inhibits the effectiveness.

Australian operations, where wearing of short pants is permitted, shall ensure that high-visibility/reflective striping meets the width requirements above and is placed at the knee.

Deviations from this standard may take place only after a written risk assessment has been performed and signed-off by the site Safety Manager AND site Operations Manager and approved by Corporate Safety and Health.

Approved garments with the sleeves cut out of them will not be considered to meet the requirements of this policy.

6 EXAMPLES OF MARKING PATTERNS - FOR EXISTING AND NEW OPERATIONS



**Bib Overalls -
Rear View
Current Operation**



**Bib Overalls -
Front View
Current Operation**



**Bib Overalls –
Rear View
New Operation
or Replacement**



**Bib Overalls –
Front View
New Operation
or Replacement**



**Jeans New Operation
or Replacement**



**Long Sleeve Shirt
and Jeans –
Front View
Current Operation
Standard**



**T Shirt –
New Operation
or Replacement**



**Work Shirt –
New Operation
or Replacement**



**Coveralls –
Rear View
New Operation and
Replacement Standard**



**Coveralls –
Front View
New Operation and
Replacement Standard**



High Visibility Vest Pattern –
Current and New Operation
Standard (Surface)

7 AUSTRALIAN OPERATIONS - EXISTING AND NEW OPERATION PATTERNS



Australian Standard
Orange and Blue Shirt
Exhibit 6
Current and New Standard Surface



Australian Standard
Orange Shirt –
Exhibit 7
Current and New Standard Surface



**Australian Standard
Orange T-Shirt –
Exhibit 8
Current and New Standard Surface**



**Australian Standard Underground –
Exhibit 9
Current Standard Underground –
New Standard Would Require
Striping on Arms**