

## 1.0 PURPOSE

To provide guidance to investigators when evaluating flatwashers used with lockwashers on explosion-proof enclosures as required by Title 30 Code of Federal Regulations (30 CFR), Part 7, Section 7.304(g) 7 and Part 18, Section 18.32(b).

## 2.0 SCOPE

This POL encompasses explosion-proof enclosures submitted to MSHA for evaluation under 30 CFR, Parts 7 and 18.

## 3.0 REFERENCES

This POL does not affect or make change to any other document.

## 4.0 DEFINITIONS

No definitions are necessary.

## 5.0 POLICY

5.1. 30 CFR, Part 7, Section 7.304(g) 7 and Part 18, Section 18.32(b) require lockwashers (or equivalent) be provided for all fastenings that secure parts of explosion-proof enclosures. The following should be observed when evaluating the use of flatwashers with lockwashers:

5.2. Flatwashers may be used under split lockwashers on aluminum covers only.

5.3. Flatwashers shall not be used under lockwashers when bolts, screws, or studs are used to secure steel covers.

5.4. The bolt or screw shall not bottom when the lockwasher and/or flatwasher is omitted.

5.5. The flatwasher material and thickness must be specified on approval drawings to ensure that the bolt or screw will not bottom when the lockwashers and flatwashers are omitted.