

**Vision: Our Industries Free of Safety and Health Incidents**

## Directive

**I John Kabel, an Inspector appointed under Section 125, of the Coal Mining Safety and Health Act 1999 issue a Directive to reduce risk, pursuant to 166 of the Coal Mining Safety and Health Act 1999.**

Subject: <b>Electrical Equipment</b>
File No.:
Mine Name:
Mine Operator:

Mines Inspectorate Activity: Inspection	Activity Dates: 23/11/2005
Record Date: 22/12/2005 9:14:00 AM	MRE Item No.: 1

**Title: Requirements pertaining to the use of ATF Series 251 headlights in Queensland underground coal mines.**

**Observation:**

The NSW Department of Primary Industries - Minerals, has recently issued an amended approval for the ATF Series 251 Headlight, and the AUS Ex certificate of conformity has also been revised. This resulted from conclusions of technical investigations into the Series 251 headlights that under certain ambient conditions, mounting angles and supply voltages, headlights using bulbs of more than 35 watts may produce surface temperatures in excess of 150°C.

In Queensland, this headlight was originally used under approval QMD 87 6557 XU issued on 16 November 1987, (based on the NSW MDA Ex.d L1845). Subsequently other units will have been used in Queensland under a certificate of conformity AUS Ex 3564X, originally issued on 29/09/1998.

The following directive applies to use of the ATF Series 251 Headlight in Queensland underground coal mines under the approval QMD 87 6557 XU (now taken to be certified under Section 286 'Approvals by Inspector', of the Transitional Provisions on the Coal Mining Safety and Health Act 1999).

**Directive Given:**

The ATF Series 251 Headlight comprises a cast enclosure having threaded entries for the fitting of compression type cable glands. The equipment houses a heat retarding lens (heat shield), lamp-holder/reflector assembly, porcelain terminal block, heat resistant wiring and a bulb.

I direct that ATF Series 251 Headlights described and used under QMD 87 6557 XU :

1. must have the heat shield shown on drawing ATF1-251-01 fitted with all lamp configurations,

2. must use the permitted ratings of the lamp as listed in the table below:

Globe Brand,	Globe Rating,	Product Reference
General Electric (GE),	MR16 Start, 20 Watt, 12 volt, dichroic mirror halogen lamp, dia. 50mm, GU 5,3,	BAB 20418
General Electric (GE),	MR16 Start, 35 Watt, 12 volt, dichroic mirror halogen lamp, dia. 50mm, GU 5,3,	FMW 20825
Osram,	Decostar 51 IRC, 20 Watt, 12 volt, dichroic reflector lamp with shield, dia. 51mm, GU 5,3,	48860WFL
Osram,	Decostar 51 IRC, 35 Watt, 12 volt, dichroic reflector lamp with shield, dia. 51mm, GU 5,3,	48865WFL

3. must not be operated at a voltage exceeding 13.8 volts, and

4. must, at the next scheduled overhaul of existing installed ATF Series 251 enclosures, have any nomination of maximum wattage rating in excess of 35 watts removed from the fitting or made illegible without compromising the explosion protected properties of the flameproof enclosure.

**References:**

Coal Mining Safety and Health Act 1999 Section 166

Coal Mining Safety and Health Regulation 2001 Section 286

**A person to whom a directive is given must comply with the directive as soon as reasonably practicable. Risk to a person resulting from a hazard at the mine must be within acceptable limits at all times.**

Reasonable Time for Compliance – Due Date: 20/01/2006

Completion Date: 8/02/2006

Reassigned Due Date:, by, on

**Directive –**

If an inspector or inspection officer reasonably believes a risk from coal mining operations may reach an unacceptable level, the inspector or officer may give a directive to any person to take stated corrective or preventative action to prevent the risk reaching an unacceptable level.

The directive may be given orally or by notice.

If the directive is given orally, the person giving the directive must confirm the directive by notice to the person in control of the mine or part of the mine to affected by the directive and to the relevant site senior executive.

Failure to comply with subsection (3) does not affect the validity of the directive.

**Method of Giving Directive –**

This directive in writing on 23/11/2005 at 5:00:00 PM

*Note: For directives given orally - List the name of all persons the directive is given to, or all classes of person at the mine the directive is given to.*

**Directive Given To –**

This directive is given to the operator of the mine.

**Method of identification Used –**

In issuing this directive I identified myself as a person appointed under Section 125 of the Coal Mining Safety and Health Act 1999.

I will produce my identity card for the other person's inspection at the first reasonable opportunity (it not being practicable to produce or display the identity card at the time of exercising the power).

**Part of mine affected by directive –**

Whole of Mine

**A copy of the directive was given to –**

A copy of this directive or notice was given to the person in charge of mine or the part of the mine affected by the directive on 23/11/2005 at 05:00:00 PM.

The person in charge of the mine or the part of the mine affected by the directive has confirmed that they were the person in charge of the mine or part of the mine affected by the directive on the day and time it was issued.

A copy of this directive or notice was given to site senior executive on 23/11/2005 at 05:00:00 PM.

**In giving this directive I reasonably believe that a risk from operations may reach an unacceptable level.**

The reason for my belief or suspicion is based upon the following -

Technical investigations into the Series 251 headlights concluded that under certain ambient conditions, mounting angles and supply voltages, headlights using bulbs of more than 35 watts might produce surface temperatures in excess of 150°C in an underground coal mine.

**John Kabel:** .....

**Date Issued:** ...../...../.....

**Warning** - Failure to comply with this directive is an offence. If you disagree with this directive, you may apply for a review of the directive. A summary of the review provisions is provided below.