



Eflare Environmental & Cost Benefits

# TO IMPROVE IS TO CHANGE



**eflare**<sup>TM</sup>  
safety in a flash

**BE SEEN - BE SAFE**

**HZ 530 Series  
Police Beacon**

  
VICTORIA POLICE

Body Color:	Yellow
LED Color Options:	4 x Red / 4 x Blue
Candela:	24 Red / 8 Blue
No of LED's:	4 + 4
Flash Rate:	280 - 320 tpm
Battery Type:	D Cell x 2 (Not Included)
Battery Life:	40 hours
Weight:	450g inc Batteries
Height:	20 cm

As recommended by Victoria Police.  
Fully demonstrated by Victoria Police Video available on  
website: [www.eflarecorp.com/applications](http://www.eflarecorp.com/applications)



**eflare**<sup>TM</sup> HZ530

**eflare**<sup>TM</sup> Protector Beacon  
[www.eflarecorp.com](http://www.eflarecorp.com)

1. Always use quality alkaline D cells
2. Insert new batteries with + terminal towards lens. Do not mix types
3. Make sure cap is tightened as far as possible to engage O-ring
4. To switch beacon on, rotate into clockwise, off, counter-clockwise
5. Store beacon vertical in base on a firm surface. Or use corner mount to hold batteries when yellow LED indicator batteries when yellow LED indicator

## TO IMPROVE IS TO CHANGE

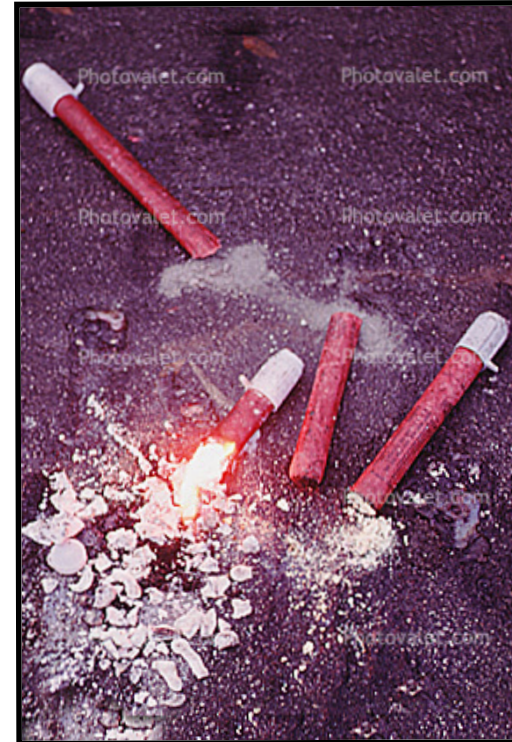
The time has come to make a decision to eliminate an old technology in favor of a new one. The recommended changes are based on;

- The protection of our environment.
- An absolute improvement of safety for the public and our members.
- The long-term financial savings that would be definitely realized.



## OUR ENVIRONMENT

- ❑ Nothing Green about these: Potassium perchlorate, strontium nitrate, oil binders and sulphur.
- ❑ MSDS Data Sheets: "should not come in contact with surface and ground water (rain). A single flare can contaminate 200,000 plus litres of water.
- ❑ Potassium perchlorate is a highly toxic chemical that can cause serious health problems.



## REAL SAFETY CONCERNS

- ❑ CHEMICAL FLARES REQUIRE SPECIAL HANDLING PROCEDURES.
- ❑ POTENTIALLY DANGEROUS FOR USERS
- ❑ CAN CAUSE EXPLOSIONS AND FIRES
- ❑ CAN'T BE USED AT POTENTIALLY EXPLOSIVE ACCIDENT SCENES

Rocklin Police Department car destroyed November 2004 by the unplanned ignition of a chemical road flare.



## TIME FOR CHANGE

- ❑ THE EFLARE HZ530 R/B LED SAFETY BEACONS
- ❑ USE 2 ALKALINE D CELL BATTERIES THAT PROVIDE AT LEAST 50 HOURS OF SERVICE WHICH IS EQUAL TO 150 CHEMICAL FLARES.
- ❑ PROVIDE UP TO 100,000 HOURS OF SERVICE WHICH IS EQUAL TO 300,000 CHEMICAL FLARES.



## TIME FOR CHANGE

- INTENSELY BRIGHT. CAN BE SEEN FROM OVER 1 KM AWAY WITHOUT NIGHT VISION FIXATION.
- INFINITELY VERSATILE. EASILY ATTACHES TO BELTS, CLOTHING, VEHICLES, AND CONES.
- PORTABLE AND EASY TO USE.
- ABSOLUTELY NO NEGATIVE IMPACT ON OUR ENVIRONMENT




## TIME FOR CHANGE

- ❑ RECEIVED THE HIGHLY RESPECTED EUROPEAN ATEX & IECEx INTRINSICALLY SAFE ACCREDITATION.
- ❑ SAFE IN HIGHLY EXPLOSIVE ENVIRONMENTS.
- ❑ 280 - 320 FPM - RED / BLUE FLASH PATTERN
- ❑ IMPROVED SAFETY FOR OUR MEMBERS AND THE PUBLIC



# VICTORIA POLICE - AUSTRALIA

- CO-DEVELOPED PRODUCT
- REASON - REPLACE CHEMICAL FLARES THAT WERE MORE COSTLY, NON RE-USABLE AND A POTENTIAL WORKPLACE HAZARD.
- "THE EFLARE NOW PROVIDES INCREASED SAFETY FOR OUR MEMBERS AT NIGHT IN A HIGH RISK ENVIRONMENT WITHOUT THE RISK AND POLLUTION OF PYROTECHNIC FLARES"



VICTORIA POLICE

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1 October 2002

EFlare Corporation Pty Ltd  
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Victoria Police Recommendation of the EFlare 500 series  
Compact Warning Beacons

Victoria Police is pleased to testify to the use of the EFlare 500 series of compact warning beacons.


Victoria Police has for the past four years actively assisted in the development of electronic EFlares conceived by the EFlare Corporation. This co-development directly linked through our traffic and operations departments has resulted in the production of the successful EFlare 500 series. The EFlare beacon used by Victoria Police is a dual colour blue/red flashing unit that is state of the art.

Victoria Police has in the past two years purchased many thousands of the EFlares with their issue to all operational police regions and in particular Traffic Management Units. Development of the EFlare was originally sought to replace chemical flares that were expensive, non re-usable and a potential workplace hazard.

The EFlare now provides increased safety for our members at night in a high risk environment without the risks and pollution of pyrotechnic flares.

Victoria Police is a state police force comprising over 11,500 employees serving 4.61 million Victorians. It provides 24-hour support to the community through 328 police stations and other specialist units. We pride ourselves as being an innovator and policing leader in road safety initiatives. This 4<sup>th</sup> generation compact and portable hazard warning beacon utilises high luminosity technology to give bright and clear indication to all road users that police are on the roadway over 200 metres ahead. Victoria Police members are extremely appreciative of the EFlare and its usages.

Further information on the EFlare can be obtained from the Statewide Traffic Adviser, Superintendent Harry Hayes at [harry.hayes@police.vic.gov.au](mailto:harry.hayes@police.vic.gov.au).

  
Stephen Pierce  
Acting Superintendent.



# COST ANALYSES

## Power Cost

	Chemical Flares	Eflare HZ530 Red/Blue
Power source	chemicals	2 Alkaline D cell batteries
Length of power source	15 to 20 minutes per flare	50 hours
Cost per unit	\$1.50	\$1.82 (2 D's)
Cost per hour	\$4.50	\$0.036 / hour
Cost per 50 hours	\$225.00	\$1.82
Cost difference based of LED Beacons 100,000 hr life cycle	\$450,000.00	\$3,640.00



# COST ANALYSES

## Technology Cost / Payback Period

Recommended number of LED sets to be purchased (a set contains four beacons, 4 rubber bases, 4 cone clips and 1 carrying bag).	180
Cost per set (doesn't include applicable taxes)	\$160.00
Total Investment	\$28,800.00
Current annual chemical flare cost	\$10,000.00
Payback Period (years)	2.88