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**SGS**  
 ORIGINAL

September 07<sup>th</sup>, 2005

## INSPECTION REPORT

Ref: 03/INEM/051-5

IN PURSUANCE OF AN ORDER RECEIVED FROM UNIPOS OOD, REQUESTING US TO CARRY OUT THE INSPECTION WITHIN THE SUBJECT AND SCOPE DESCRIBED AS FOLLOWS:

### 1. SUBJECT OF THE INSPECTION

Optical smoke fire detectors type FD xx30, presented at "Plemed" EOOD Test Laboratory in Pleven/ Bulgaria.

### 2. SCOPE OF THE INSPECTION

As per our offer Ref. No № 0472/16.05.2005:

- Identification of Optical smoke fire detectors type FD xx30, as described herein above, by visual inspection and presented technical documentation and data (manufacturer, type, serial numbers);
- Witness test of Optical smoke fire detectors type FD xx30 for compliance with the requirements of BDS EN 54-7:2001 Fire detection and fire alarm systems Part 7: Smoke detectors – Point detectors using scattered light, transmitted light or ionization

### 3. RESULTS OF THE INSPECTION

The test of Optical smoke fire detectors type FD xx30 was performed from July 08<sup>th</sup> to July 25<sup>th</sup>, 2005 at "Plemed" EOOD Test Laboratory in Pleven, No 114, "Grenaderska" Street, Bulgaria.

The tests were performed by Mr. Stanoev, Mr. Chorbadzhev, from Test Laboratory and Mr. Angelov, from UNIPOS OOD, observed by Mr. Ganov, representative of SGS Bulgaria Ltd. and approved by Mr. Borissov.

Optical smoke fire detectors type FD xx30, presented for inspection, were identified as Addressable Optical smoke fire detector type FD 7130 and Conventional Optical smoke fire detector type FD 8030. The serial numbers of the goods are listed below:

Fire detector	Addressable Optical smoke fire detector type 7130	Conventional Optical smoke fire detector type FD 8030
Serial Numbers	170505121	170505041
	170505122	170505042
	170505123	170505043
	170505124	170505044
	170505125	170505045
	170505126	170505046
	170505127	170505047
	170505128	170505048
	170505129	170505049
	170505130	170505050
	170505131	170505051
	170505132	170505052
	170505133	170505053
	170505134	170505054
	170505135	170505055
	170505136	170505056
	170505137	170505057
	170505138	170505058
	170505139	170505059
	170505140	170505060

SGS representative witnesses the test of Optical smoke fire detectors type FD xx30 with the under noted details, stated to be representative sample of production, for compliance with the requirements of standard BDS EN 54-7:2001 Fire detection and fire alarm systems Part 7: Smoke detectors – Point detectors using scattered light, transmitted light or ionization.





Visual inspection for compliance with drawings was performed.

The following apparatus were used during the test:

- Smoke tunnel ST 2003, HO 03 17005, inventory No №027, certificate No 011/18.05/2005, Plemed Ltd as per EN 54-7;
- Anemometer – Thermometer Unitest, serial number HE 0122 TA, certificate No B195/09.12.2004 Laboratory complex "INTERLAB" – Sofia;
- Digital Multimeter MY 68, serial number 05071939, certificate No LKSIEV-217/26.11.2004 State Agency in Standardization and Metrology (SASM), Measures and Measuring Equipment General Directorate,
- Thermometer Hg, inventory No 041, certificate No B196/09.12.2004 Laboratory complex "INTERLAB" – Sofia;
- Regulated rectifier STATRON TYP 3205, inventory No 4478;
- Humidity chamber, HO 01-17001, inventory No 015, certificate No 001 / 16.05.2005 Plemed Ltd.;
- Cold chamber, HO 03-17006, inventory No 028, certificate No 004 / 17.05.2005 Plemed Ltd.;
- Technical Appliance for side-impact test TA 03-17007, inventory No 029, certificate No 010/18.05.2005 "Plemed Ltd. As per EN 54-5;
- Slide Callipers INOX, inventory No 013;
- Scales E 5500 S, serial number 36080001;
- Fire Control Panel FS 7002, inventory No 002/2005 – used only for the tests of FD 7130.
- Fire Control Panel FS 5200, inventory No 002/2005 – used only for the tests of FD 8030.

The following parts of the standard were followed:

STANDARD	DESCRIPTION	PART
BDS EN 54-7:2001	Fire detection and fire alarm systems	Part 7: Smoke detectors – Point detectors using scattered light, transmitted light or ionization.
IEC 60068-2-1:1990 / A1:1993 / A2:1994	Environmental testing	Part 2: Tests – Tests Ab: Cold
IEC 60068-2-30:1980 / A1:1985	Environmental testing	Tests Db, Damp Heat
BDS EN 60529:2000	Degree of protection	

The protocols No 03/2005-07-25 and No 07/2005-07-28, representing the results of the test of Fixed Temperature Heat Detectors, have been endorsed by the above mentioned representatives of UNIPOS OOD, Test Laboratory and SGS Bulgaria Ltd. and become part of this report.

*The results of the testing having been found satisfactory for the Optical smoke fire detectors type FD xx30, as stated above, insofar as tested at this time, complies with the requirements of BDS EN 54-7:2001 Fire detection and fire alarm systems Part 7: Smoke detectors – Point detectors using scattered light, transmitted light or ionization.*

The findings of this Report are limited to the place and date of inspection.



**SGS BULGARIA LTD.**



Enclosure: Photo report  
Protocol No 03/2005-07-25  
Protocol No 07/2005-07-28

