

National Center for Research on Earthquake Engineering

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http://www.ncree.gov.tw

No. ST090502-1

Applicant: P.E.E.S GmbH

(申請者)

Von Waldhausenstr 12 44577 Castrop-Rauxel

Germany

LIFE PROTECTION B.V.

Nijverheidstraat 6 4143 HM Leerdam The Netherlands

Item Tested: SOS-LIFE earthquake early warning system

(試驗件)

Model: SOS-LIFE EARTHQUAKE/EMERGENCY ALARM

S/N: 2039/00149

Date of Test(s): September 5, 2002

(試驗日期)

Equipment Used: Tri-axial Seismic Simulator

(試驗系統)

Test method or procedure:

(試驗步驟)

The test was carried out by using the shaking table of National Center for Research on Earthquake Engineering in Taiwan. The SOS-LIFE test unit was located horizontally upon the table, and the specified bi-axial excitations are the vertical and NS- components of the actual earthquake ground motions observed at Bolu-Bayindirlik ve Iskan Mudurlugu during the Duzce (Turkey) Earthquake in 1999 and Chi-Chi (Taiwan) Earthquake in 1999.

本試驗是利用國家地震工程研究中心三軸向地震模擬器,將試驗件 SOS-LIFE 直接水平置放在模擬器平台上,並以 Bolu-Bayindirlik ve Iskan Mudurlugu during the Duzce (Turkey)及台彎集集大地震的地震紀錄,以水平兩軸方向同時作爲模擬測試的地震力。

Test Results:

(試驗結果)

Based on the actual earthquake data observed at Bolu-Bayindirlik ve Iskan Mudurlugu during the Duzce (Turkey) Earthquake in 1999, the SOS-LIFE test unit responded correctly on the first arrival of the P-waves by triggering the alarm. Then, the SOS-LIFE test unit has been exposed to the



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same earthquake waveform with scaled-down amplitudes (the amplitudes of the first P-wave are scaled-down to be about 0.5 m/sec2), however, it did not sound the alarm. It can be summarized that the SOS-LIFE test unit will only respond to major and potential life-threatening earthquakes.

以 Bolu-Bayindirlik ve Iskan Mudurlugu during the Duzce (Turkey)的地震紀錄作 測試時,觀察試驗件 SOS-LIFE 確實能在第一個 P 波到達時產生反應,但當同一地震紀 錄之 P 波震幅,以正比率降至 0.5 m/sec^2 時,該試驗件則無反應;因此,該試驗件於 本次試驗時,在大地震發生時始有功效。

(以下空白)

Name:

Chai, Juin-Fu

Position:

Associate Research Fellow

Signature:

Date:

September 5, 2002