

Netherlands

Report nr. page 1 of 2

ORDER : To carry out inspection activities i.e. measuring seaweed

OBJECT : dimension (L) cm X (W)

LOCATION : Lijnbaansgracht 260  
1017 RL, Amsterdam

CUSTOMER NAME : Quint Snel

PHONE NUMBER : +31(0)614134617

ORDER REFERENCE :

DATE : <sup>th</sup> 11 of Oktober 2011.

STATEMENT : Undersigned, representing First Safety B.V. Amsterdam declares that the activities described in this report have been carried out as ordered.

The dose rates at the surface of the examined material shall not exceed the dose limit of 1 mSv per year, as mentioned in art. 76 of the Dutch Radiation Protection Decree and Article 13 of the Council Directive 96/29 EURATOM.

De examined materials were tested for radioactive materials for the radionuclide Co14, Co-137, Co-131 and Co-134 as mentioned in the Dutch Radiation Protection Decree (Art. 25 and supplement 1) and the Council Directive 96/29 EURATOM.

The results of the inspection refer to the activities as ordered only. No part of this report may be copied without permission First Safety B.V.

**1. Inspection activities.**

**1.1 Method**

With a mobile gamma ray detector and a gamma ray spectrometer the radiation levels at the surface of the materials were measured.  
 The test and measurements are performed in accordance with work instructions FS-93064, and FS-93104, which are part of the licence with reference number GM08060262, granted on the 17th of July 2008.

**1.2 Measurement equipment on location**

Count rate meter / dose rate meter / gamma spectrometer type **Contamat FHT 111 M** and **identiFINDER 2**

**1.3 Radiation measurements**

1.3.1 Background measurements

Equipment	Serial 910383-18	Measured value
IndentiFINDER 2		0,058 µSv/h

Equipment	Serial 45602-0	Measured value
Contamat		9,90 cps,
Contamat		407 Bq

1.3.2 Radiation measurements on the outside surface of the items

Item	location Num	Measured value		
1	Seaweed	Becquerel (Bq) 885	count rate [cps] 18,0	dose rate (µSv/h) 0,083
2		Becquerel (Bq) 0.00	count rate [cps] 0,0	dose rate (µSv/h) 0,00

1.3.3 On-site radionuclide identification with mobile gamma spectrometer

At the surface of the items a gamma spectrum was recorded using the **IndentiFINDER 2** No radionuclide could be identified.

**2 Results**

During the measurements no increased radiation levels were detected at the surface of the items. The dose rate measurements recorded no higher dose rates than the local background dose rates.  
 The results of the gamma spectrometry on site show no identification of Co14, Co-137, Co-134 and Co-131 in the items.

**3 Conclusions**

During the inspection on the examined items no emitting ionising radiation was detected.  
 The dose rates at the surface of the examined material shall not exceed the dose limit of 1 mSv per year, as mentioned in art. 76 of the Dutch Radiation Protection Decree and Article 13 of the Council Directive 96/29 EURATOM.

Drawn up d.d. October 11, 2011

H. Jansen  
 Expert radiation