

## Torres, RobertoJ

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**From:** Mark.Lees@macdow.co.nz  
**Sent:** Wednesday, July 14, 2010 8:03 PM  
**To:** Torres, RobertoJ  
**Cc:** Lindsay.Murray@macdow.co.nz; Loloane.Auala@macdow.co.nz;  
Keith.Griffin@macdow.co.nz; Thomas.Jefferd@macdow.co.nz;  
Craig.Langsford@macdow.com.au  
**Subject:** Re: Request for additional information in support of license application  
**Attachments:** Addn Info.pdf; nrc313.pdf; App H NUREG 1556 Vol 1-errata.pdf

Roberto,

Letter attached answering your queries.

Regards,  
Mark

*(See attached file: Addn Info.pdf)*

**Mark Lees | Project Engineer | McConnell Dowell (American Samoa) Ltd**  
Tafuna Road 1, PO Box 4664 Pago Pago 96799, American Samoa  
p: (+684) 699 2239 | f: (+684) 699 2552  
[www.mcconnelldowell.com](http://www.mcconnelldowell.com)

**Please consider the environment before printing this email**

The logo for MacDow, featuring the word "MACDOW" in a stylized, handwritten-style font. The "M" and "D" are larger and more prominent, with the "A" and "O" being smaller and more compact. The letters are black and have a slightly irregular, hand-drawn appearance.

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\* "Torres, RobertoJ" ---14/07/2010 09:12:45 a.m.---Mr. Lees: The NRC has received McConnell Dowell (American Samoa) Ltd application for a portable gauge

**From:** "Torres, RobertoJ" <[RobertoJ.Torres@nrc.gov](mailto:RobertoJ.Torres@nrc.gov)>  
**To:** "[mark.lees@macdow.co.nz](mailto:mark.lees@macdow.co.nz)" <[mark.lees@macdow.co.nz](mailto:mark.lees@macdow.co.nz)>  
**Date:** 14/07/2010 09:12 a.m.  
**Subject:** Request for additional information in support of license application

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Mr. Lees:

The NRC has received McConnell Dowell (American Samoa) Ltd application for a portable gauge license (pending is the receipt of the application fee). I have started the technical review of the application. Please provide the following additional information in a signed/dated letter in company letterhead (pdf file is acceptable) to complete the review process.

1. NRC Form 313 needs to be signed by an individual who can make legally binding commitments on behalf McConnell Dowell. Please confirm that you can make legally binding commitments on behalf McConnell Dowell or have such an individual sign and date another Form 313.

2. Current inventory - State how many Humboldt 5001 portable gauges and how many Seaman 300 portable gauges are currently in your inventory in American Samoa. Your current inventory will be authorized in the license.

3. Projections into the future – State if you plan to acquire additional gauges in the future to be stored in American Samoa. Provide number of proposed future gauges, radionuclide, manufacturer's name and model number so that we can preauthorize them in the license.

4. Provide copies of the most recent leak test results for all the gauges currently in your inventory in American Samoa.

5. In the application you committed to implement and maintain operating and emergency procedures described in Appendix H of NUREG-1556, Volume 1, Revision 1. Appendix H has been revised (see attachment). Please commit to the following language:

“We will implement and maintain the operating, emergency and security procedures described in the errata sheet to Appendix H of NUREG-1556, Volume 1, Revision 1, dated November 2001 and will provide copies of these procedures to all gauge users and at each job site.”

6. Radiation survey meter – In the application you stated that your company was going to acquire a NeutronRAE II, personal radiation detector. You also stated in the application that your company will either possess and use, or have access to and use, a radiation survey meter. The instrument that you are proposing to buy is designed primarily to be a “personal radiation detector” as opposed to being a “radiation survey meter”. A review of the instrument's technical data indicates that the instrument is acceptable for use during an incident but it is the opinion of the reviewer that a less expensive radiation survey meter (instead of a personal radiation detector) can also be used during an incident. Please confirm the type of instrument that your company is going to use during an incident.

Please provide a response at your earliest convenience. Please send me an email if you need clarification on any of the above items. Thank you.

Roberto J. Torres  
Acting Branch Chief  
U.S. Nuclear Regulatory Commission - Region IV

Division of Nuclear Materials Safety  
Nuclear Materials Safety Branch B  
612 East Lamar Boulevard, Suite 400  
Arlington, Texas 76011-4125  
Telephone 817-860-8189  
Facsimile 817-860-8263  
robertoj.torres@nrc.gov

*(See attached file: nrc313.pdf)(See attached file: App H NUREG 1556 Vol 1-errata.pdf)*



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(American Samoa) Ltd

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Pago Pago, American Samoa

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Ref: 6310 – 102 – 002 ml

14 July 2010

Acting Branch Chief  
US Nuclear Regulatory Commission – Region IV  
Division of Nuclear Materials Safety  
Nuclear Materials Safety Branch B  
612 East Lamar Boulevard, Suite 400  
Arlington, Texas 76011-4125

Attn: Roberto J. Torres

**RE: Application for Portable Gauge Licence**

**SUBJECT: Additional Information**

With reference to your email received today, we respond as follows:

- I, Mark Lees, have authority to act on behalf of McConnell Dowell to make a legally binding agreement.
- Current Inventory: Humboldt 5001 Portable Gauge x 1 unit only, Seaman 300 Portable Gauge x 1 unit only.
- We do not intend to acquire additional gauges at this time for our facility in American Samoa. If we find we need additional or replacement gauges, we will forward the radionuclide, manufacturer's name and model number to you along with any further information you require for pre-approval prior to shipping the unit.
- Copy of the most recent leak test result attached for the Humboldt 5001 Portable Gauge and the latest calibration test certificate of the Seaman 300 Portable Gauge. A leak test has been carried out today on the Seaman 300 and the results will be forwarded to you as soon as we receive them.
- We will implement and maintain the operating, emergency and security procedures described in the errata sheet to Appendix H of NUREG-1556, Volume 1, Revision 1, dated November 2001 and will provide copies of these procedures to all gauge users and at each job site.
- We have purchased the NeutronRAE II Personal Radiation Detector for use during an incident.

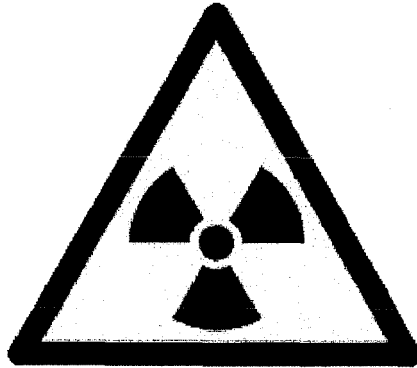
We trust this meets with your approval

Yours Sincerely,

Mark Lees  
Project Engineer  
McConnell Dowell (American Samoa) Ltd

# Leak Test Certificate No 1410

## Nuclear Density Gauge



Gauge Type & Number: Humboldt 5001c S/No 1687

Client: McConnell Dowell, Box 2758 Shortland Street, Auckland

Sources checked: Cs-137 S/no 9390 GH

Am-241:Be S/no NJ 01659

Radiation Meter:- ND-2RP SNo 35068

Date: 29 - 01 - 09

Method : Groundtest Comparator Method

Scale: 0.1 cpm

Result: Background 80cpm, Test 80cpm

Meter Check: 1400cpm

Passed : ..... *M Mahoney* .....

M Mahoney, Technician.

This certificate applies only to the item tested, as identified on this certificate

To: McConnell Dowell  
PO BOX 4664  
Auckland

Attn: Lindsay Murray

Date: 7<sup>th</sup> July 2009

## GROUNDTEST Equipment



104 Beachcroft Avenue,  
P.O.Box 13 026,  
ONEHUNGA,  
Auckland, New Zealand  
Phone : (9) 634 1509  
Fax : (9) 634 1560  
ground@iconz.co.nz

Re: Calibration of Seaman C300 Nuclear Density Gauge S/No 21112

Calibrated according to the Seaman gauge internal calibration method.  
Results are as follows:

Density	Touchable	Untouchable	Moisture Touchable	Moisture Untouchable
109.23 pcf (1757 kg/m3)	1.3214	1.2075	0.0 302	0.0 295
133.17 pcf (2141 kg/m3)	1.5006	1.3264	31.706 10036	31.706 8915
162.8 pcf (2607 kg/m3)	1.7387	1.4730		

Standard Counts DS 51477, MS 9503

Stat test 42572 (0.894F) 1995 (1:042P)

CONSTANTS	A	B	C
TOUCHABLE	131.1514	0.2197	0.2151
UNTOUCHABLE	131.7577	0.0234	0.3813

### CALIBRATION CHECK

Al (2607 kg/m3) Al/Mg (2142 kg/m3) Mg(1757 kg/m3)

Touchable	2608	2115	1752
Untouchable	2611	2142	1742

Richard Burden  
Manager

## Torres, RobertoJ

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