



UNIVERSITY OF MICHIGAN  
COLLEGE OF ENGINEERING  
THE RADIATION LABORATORY  
DEPARTMENT OF ELECTRICAL ENGINEERING  
AND COMPUTER SCIENCE

3228 EECS BUILDING  
1301 BEAL AVENUE  
ANN ARBOR, MICHIGAN 48109-2122  
734 764-0500 FAX 734 647-2106  
<http://www.eecs.umich.edu/RADLAB/>

Re: Certification for Wanco, Inc. Field Dist. Sensor  
Model(s): WRDR  
FCC ID: UQXWRDR432  
IC: 6809A-WRDR432

REQUEST FOR MODULAR APPROVAL

The Doppler radar module used in this device has its own RF shielding, and does not accept modulation or data inputs. This device is internally regulated and the patch array antenna is a permanent component of the RF module. The WRDR has been tested in a stand-alone configuration and demonstrated both power mains and radiated emissions compliance with the FCC part 15 regulations.

It is our understanding that meeting these requirements qualifies the above device for modular approval. We request that this application be processed accordingly.

If there are any questions regarding this request, please contact me at the above address or call 734-483-4211, fax 734-647-2106 or e-mail [liepa@umich.edu](mailto:liepa@umich.edu).

Sincerely,

A handwritten signature in black ink that reads 'Valdis V. Liepa'.

Valdis V. Liepa  
Research Scientist  
University of Michigan



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POWER OF ATTORNEY

A letter granting Valdis V. Liepa the Power of Attorney is on file and can be provided when so requested.



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### REQUEST FOR CONFIDENTIALITY

Pursuant to 47 CFR 0.459, Wanco, Inc. requests that a part of the subject application be held confidential. This comprises Exhibits

- (5) Schematics
- (10) Parts List (Part of Exhibit only)

Wanco, Inc. has spent substantial effort in developing this product and it is one of the first of its kind in industry. Having the subject information easily available to "competition" would negate the advantage they have achieved by developing this product. Not protecting the details of the design will result in financial hardship.

If there are any questions regarding this request, please contact me at the above address or call 734-483-4211, fax 734-647-2106 or e-mail [liepa@umich.edu](mailto:liepa@umich.edu).

Sincerely,

A handwritten signature in black ink that reads "Valdis V. Liepa".

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November 5, 2006

Re: Certification for Wanco, Inc. Field Dist. Sensor  
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STATEMENT OF MODIFICATIONS

There were no modifications made to the DUT by this test laboratory. (Also see Section 3.1 of the attached Test Report).

A handwritten signature in black ink, reading 'Valdis V. Liepa', written over a horizontal line.

Valdis V. Liepa  
Research Scientist



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IC: 6809A-WRDR432

### GENERAL PRODUCT INFORMATION

The device, for which certification is pursued, has been designed by:

Wanco, Inc.  
5870 Tennyson St.  
Arvada, Co 80003

Michael Wanasz  
[mwanasz@wanco.com](mailto:mwanasz@wanco.com)  
Tel: 303-427-5700 x 305  
Fax: 303-427-5725

It will be manufactured by:

Wanco, Inc.  
5870 Tennyson St  
Arvada, Co 80003

Michael Wanasz  
[mwanasz@wanco.com](mailto:mwanasz@wanco.com)  
Tel: 303-427-5700 x 305  
Fax: 303-427-5725

Canadian Contact:

Knight Safety LTD.  
2800 No. 3 Road  
Richmond, BC V6X 2B3  
Phone Number: 604 232 0052  
FAX: 604 232 4402  
Contact: Bill Van Esch  
E-mail: [bvanesch@telus.net](mailto:bvanesch@telus.net)



# WANCO, INC.

Manufacturer of Message Boards, Arrow Boards and Portable Floodlighting Since 1984.

Federal Communications Commission  
Applications Processing Branch  
7435 Oakland Mills Road  
Colombia, MD 21046

Re: Letter of Agency for FCC Compliance Testing

Please be advised that Wanco Inc. authorizes Professor Valdis V. Liepa of the University of Michigan, Department of Electrical Engineering and Computer Science, Ann Arbor, Michigan, to act on our behalf in front of the Federal Communications Commission with respect to all matters relating to certification.

**Anti-Drug Abuse Certification:**

I further certify that no party (as defined in 1.2002 of CFR47, 1992) to this application, including myself, is subject to a denial of federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti Drug Abuse Act of 1988, 21 U.S.C. 853(a).

Dated this 26 day of 10, 2006.

By:

Matthew W Wancusz  
(Signature)

Matthew W Wancusz  
(Print name)

Title:

Production / IT Manager

email:

matthew@wanco.com

On behalf of:

Wanco Inc.  
(Company Name)

Telephone:

303 427 -5700



# WANCO, INC.

Manufacturer of Message Boards, Arrow Boards and Portable Floodlighting Since 1984.

American TCB  
6731 Whittier Ave.  
McLean, VA 22101

## Acknowledgement of IC Listing Requirements

By signing this document, we acknowledge that any information specified on the ATCB Application and Agreement Form for Industry Canada Certification Services provided with this application may be provided to Industry Canada. We acknowledge that this information may be posted in the Radio Equipment List (REL) on the Department's Web Site. Additionally, we understand that we must inform ATCB of any changes to the information submitted.

We further acknowledge that the Certified product shall not be distributed, leased, or offered for sale in Canada prior to its listing on the Industry Canada Radio Equipment List (REL). We are aware that we may verify the status of this listing at the following web address:

[http://strategis.ic.gc.ca/cgi-bin/sc\\_mrksv/spectrum/reltelSearch/search.pl?lang=e&db=rel](http://strategis.ic.gc.ca/cgi-bin/sc_mrksv/spectrum/reltelSearch/search.pl?lang=e&db=rel)

Dated this 26 day of 10, 2006.

By:

  
(Signature)

Matthew W Wanase  
(Print name)

Title:

Production/IT Manager

email:

matthew@wanco.com

On behalf of:

Wanco, Inc  
(Company Name)

Telephone:

303 427-5700